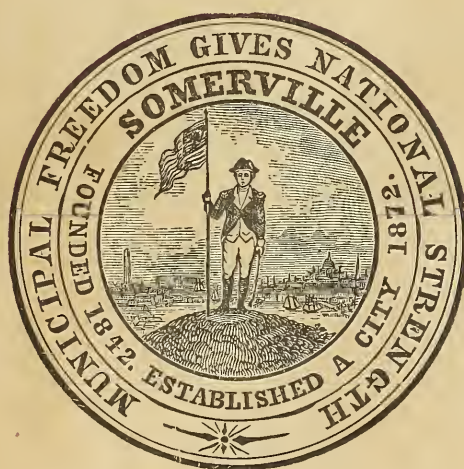


CITY OF SOMERVILLE


ANNUAL REPORTS

1892



SOMERVILLE JOURNAL PRINT.

1893.



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CITY GOVERNMENT AND OFFICERS FOR 1892.

MAYOR.

WILLIAM H. HODGKINS,
188 Central Street.

BOARD OF ALDERMEN.

CHARLES B. OSGOOD, *President*.

WARD ONE.

S. WALKER JANES	142 Washington Street.
EDRIC ELDRIDGE	88 Pearl Street.

WARD TWO.

FRANK E. FITTS	17 Pleasant Avenue.
WARREN J. ROBINSON	11½ Greene Street.

WARD THREE.

CHARLES B. OSGOOD	71 Gilman Street.
WILLIAM L. BARBER	36 Marshall Street.

WARD FOUR.

WILLIAM A. HUNNEWELL	9 Mason Avenue.
NEWELL F. CASWELL	49 Cherry Street.

CLERK.

GEORGE I. VINCENT.

COMMON COUNCIL.ISAIAH H. WILEY, *President.***WARD ONE.**

ISAIAH H. WILEY	54 Mt. Vernon Street.
JOSEPH A. BARTLETT	64 Cross Street.
HERBERT E. MERRILL	44 Florence Street.
LEWIS STOCKBRIDGE	33 Pinckney Street.

WARD TWO.

JAMES W. BEAN	40 Columbus Avenue.
FRANKLIN J. HAMBLIN	30 Walnut Street.
MICHAEL E. FLYNN	1 Tremont Place.
FRED W. GILBERT	101 School Street.

WARD THREE.

THOMAS S. WENTWORTH	350 Broadway.
LEWIS B. HOLLIS	476 Broadway.
JOHN ANDREWS	34 Albion Street.
CALVIN H. WHITNEY	158 Pearl Street.

WARD FOUR.

FRANKLIN F. PHILLIPS	211 Holland Street.
CHARLES A. G. WINTHER	408 Highland Avenue.
FRANKLIN E. HUNTRESS	318 Elm Street.
J. WILLARD JONES	217 Beacon Street.

CLERK.

CHARLES S. ROBERTSON.

JOINT STANDING COMMITTEES OF THE CITY COUNCIL.

ACCOUNTS.—Aldermen Osgood, Robinson; Councilmen Hamblin, Merrill, Jones.

CITY ENGINEERING.—Aldermen Barber, Osgood; Councilmen Flynn, Jones, Bartlett.

CLAIMS.—His Honor the Mayor; Alderman Hunnewell; the President of the Common Council; Councilmen Hollis, Hamblin.

FINANCE.—His Honor the Mayor; Aldermen Fitts, Janes; the President of the Common Council; Councilmen Hamblin, Phillips, Wentworth, Stockbridge.

FIRE DEPARTMENT.—Aldermen Fitts, Caswell; Councilmen Bean, Bartlett, Andrews.

FUEL AND STREET LIGHTS.—Aldermen Robinson, Eldridge; Councilmen Huntress, Whitney, Merrill.

HIGHWAYS.—Aldermen Barber, Janes; Councilmen Winther, Andrews, Flynn.

LEGISLATIVE MATTERS.—His Honor the Mayor; Alderman Osgood; the President of the Common Council; Councilmen Bean, Phillips.

ORDINANCES.—Aldermen Hunnewell, Osgood; Councilmen Stockbridge, Gilbert, Huntress.

PRINTING.—Aldermen Janes, Hunnewell; Councilmen Huntress, Whitney, Bean.

PUBLIC GROUNDS.—Aldermen Eldridge, Fitts; Councilmen Winther, Hollis, Bartlett.

PUBLIC PROPERTY.—Aldermen Hunnewell, Eldridge; Councilmen Wentworth, Phillips, Gilbert.

SOLDIERS' RELIEF.—Aldermen Caswell, Janes; Councilmen Wentworth, Stockbridge, Gilbert.

WATER.—Aldermen Caswell, Osgood; the President of the Common Council; Councilmen Hollis, Hamblin.

STANDING COMMITTEES OF THE BOARD OF ALDERMEN.

ELECTIONS.—Aldermen Robinson, Eldridge, Osgood.

ENROLLED ORDINANCES.—Aldermen Barber, Fitts, Hunnewell.

LICENSES.—Aldermen Eldridge, Barber, Robinson.

POLICE.—His Honor the Mayor; Aldermen Fitts, Hunnewell.

SEWERS.—Aldermen Osgood, Robinson, Caswell.

STATE AID.—Aldermen Janes, Robinson, Barber, Caswell.

SPECIAL BUILDING PERMITS.—Aldermen Barber, Fitts.

STANDING COMMITTEES OF THE COMMON COUNCIL.

ELECTIONS AND RETURNS. — Councilmen Whitney, Winther, Flynn.

ENROLLED ORDINANCES AND RESOLUTIONS. — Councilmen Jones, Merrill, Andrews.

SCHOOL COMMITTEE.

WILLIAM H. HODGKINS, Mayor, Chairman, *ex officio*.

ISAIAH H. WILEY, President of the Common Council, *ex officio*.

(Term, three years.)

WARD ONE.

S. NEWTON CUTLER (elected 1891).

HORACE C. WHITE, M. D. (elected 1889).

SANFORD HANSCOM, M. D. (elected 1890).

WARD TWO.

JAMES F. BEARD (elected 1889).

THOMAS M. DURELL, M. D. (elected 1890).

ALVAH B. DEARBORN, M. D. (elected 1891).

WARD THREE.

NORMAN W. BINGHAM (elected 1891).

QUINCY E. DICKERMAN (elected 1889).

HELEN J. SANBORN (elected 1890).

WARD FOUR.

GILES W. BRYANT, M. D. (elected 1889).

MARTIN W. CARR (elected 1890).

BENJAMIN G. BROWN (elected 1891).

CLARENCE E. MELENEY, *Superintendent and Secretary*.

ASSESSORS.

(Term, three years.)

BENJAMIN F. THOMPSON (term expires 1893).

GEORGE W. HADLEY (term expires 1894).

SAMUEL T. RICHARDS (term expires 1895).

ASSISTANT ASSESSORS.

(Term, one year.)

WARD ONE.

JOSHUA H. DAVIS (resigned May 25).

EDWARD G. WISWELL (elected May 27).

WARD TWO.

WILLIAM A. FLAHERTY.

WARD THREE.

EDGAR T. MAYHEW.

WARD FOUR.

HARRY A. TRUE.

Clerk, ALBERT B. FALES.

BOARD OF HEALTH.

(Term: Physician, three years; other members, two years.)

J. FRANK WELLINGTON (term expires 1893), Chairman.

CHARLES H. CRANE (term expires 1894).

ALVAH B. DEARBORN, M. D. (term expires 1895).

Clerk, WILLIAM P. MITCHELL.

Agent, CALEB A. PAGE.

OVERSEERS OF THE POOR.

Office, Police Building, Bow Street.

WILLIAM H. HODGKINS, Mayor, Chairman, *ex officio*.

(Term, four years.)

CHARLES G. BRETT (term expires 1893).

EDWARD B. WEST (term expires 1895).

JAMES G. HINCKLEY (term expires 1896).

NATHAN H. REED (term expires 1894).

Agent, CHARLES C. FOLSOM.

Secretary, FRANK W. KANAN.

SOMERVILLE MYSTIC WATER BOARD.

Office, Prospect Street, corner Somerville Avenue.

(Term, three years.)

GEORGE D. WEMYSS (term expires 1894),
5 Austin Street.

ALBION A. PERRY (term expires 1893),
366 Broadway.

GEORGE A. KIMBALL (term expires 1895),
5 Munroe Street.

NATHANIEL DENNETT, *Supt. Water Works*.

FRANK E. MERRILL, *Clerk*.

REGISTRARS OF VOTERS.

(Term: City Clerk, one year; other members, three years.)

CROMWELL G. ROWELL (term expires 1894), Chairman.

CHARLES P. LINCOLN (term expires 1895).

WILLIAM B. HAWES (term expires 1893).

GEORGE I. VINCENT, *City Clerk*.

TRUSTEES OF THE PUBLIC LIBRARY.

(Term, three years.)

CHARLES S. LINCOLN, *Chairman* (term expires 1894).

WILLIAM E. WELD, *Secretary* (term expires 1893).

JAMES E. WHITAKER (term expires 1893).
JOHN B. VIALI (term expires 1893).
J. HENRY FLITNER (term expires 1895).
CHRISTOPHER E. RYMES (term expires 1894).
ELIJAH C. CLARK (term expires 1895).
CHARLES H. BROWN (term expires 1894).
CHARLES A. WEST (term expires 1895).
Librarian, HARRIET A. ADAMS.

CITY CLERK AND CLERK OF BOARD OF ALDERMEN.

GEORGE I. VINCENT.

CITY TREASURER AND COLLECTOR OF TAXES.

JOHN F. COLE.

MESSENGER TO CITY COUNCIL.

JAIRUS MANN.

CITY SOLICITOR.

SELWYN Z. BOWMAN.

CITY AUDITOR.

CHARLES S. ROBERTSON.

CITY ENGINEER.

HORACE L. EATON.

SUPERINTENDENT OF STREETS.

THOMAS H. EAMES.

**INSPECTOR OF BUILDINGS AND SUPERINTENDENT OF
PUBLIC BUILDINGS AND LIGHTS.**

THOMAS R. ROULSTONE.

CHIEF OF POLICE.

MELVILLE C. PARKHURST.

CHIEF ENGINEER OF THE FIRE DEPARTMENT.

JAMES R. HOPKINS.

SUPERINTENDENT OF ELECTRIC LINES.

JAMES R. HOPKINS.

CITY PHYSICIAN.

ALVAH B. DEARBORN, M. D.

INSPECTOR OF MILK AND VINEGAR.

THOMAS CUNNINGHAM.

**INSPECTOR OF PROVISIONS AND OF ANIMALS INTENDED
FOR SLAUGHTER.**

D. WARNER DANFORTH.

CLERK OF COMMITTEES.

WILLIAM P. MITCHELL.

CLERK OF ASSESSORS.

ALBERT B. FALES.

Suitable Person to Cause to be Properly Interred the Bodies of
Honorably Discharged Soldiers, Sailors, and Marines,
Under Chapter 395, Acts of 1889.

JESSE J. UNDERHILL.

CONSTABLES.

JAIRUS MANN.

WILLIAM D. HAYDEN.

ROBERT R. PERRY.

SAMUEL R. DOW.

CHARLES C. FOLSOM.

JOSEPH J. GILES.

EDWARD MCGARR.

GEORGE CULLIS.

CHRISTOPHER C. CAVANAGH.

DENNIS KELLEY.

EUGENE A. CARTER.

CHARLES L. ELLIS.

CLARENCE TUCKER.

FIELD DRIVERS.

CHRISTOPHER C. CAVANAGH.

CHARLES S. THRASHER.

GEORGE H. CARLETON.

GEORGE W. BEAN.

JOHN E. FULLER.

CHARLES L. ELLIS.

JACOB W. SKINNER.

JOHN G. KNIGHT.

THEODORE E. HERON.

FENCE VIEWERS.

LAMBERT M. MAYNARD.

AMMIEL COLMAN.

POUND KEEPER.

CHARLES A. SMALL.

SEALER OF WEIGHTS AND MEASURES.

AMMIEL COLMAN, 34 Marshall Street.

MEASURER OF WOOD AND BARK.

SAMUEL T. LITTLEFIELD.

MEASURER OF GRAIN.

JOHN CRAIG.

**PUBLIC WEAHER IN CHARGE OF CITY SCALES, UNION
SQUARE.**

FULTON O'BRION.

WEIGHERS OF COAL.

JOHN CRAIG.	D. WARNER DANFORTH.
GEORGE K. WALCOTT.	THADDEUS HARRINGTON.
CHARLES H. TUCKER.	C. C. WOOLEY.
G. E. SLACK.	EDWARD L. DUNNING.
GEORGE E. NEWCOMB.	WILLIAM I. NEWCOMB.

WEIGHERS OF HAY AND STRAW.

JOHN CRAIG.	THADDEUS HARRINGTON.
CHARLES A. TUCKER.	C. C. WOOLEY.
G. E. SLACK.	EDWARD L. DUNNING.

WEIGHERS OF BEEF.

D. WARNER DANFORTH.	THADDEUS HARRINGTON.
CHARLES H. TUCKER.	GEORGE K. WALCOTT.
C. C. WOOLEY.	G. E. SLACK.

WEIGHERS OF BOILERS AND HEAVY MACHINERY.

THADDEUS HARRINGTON.	CHARLES H. TUCKER.
GEORGE K. WALCOTT.	C. C. WOOLEY.
	G. E. SLACK.

UNDERTAKERS.

WILLIAM A. FLAHERTY.	PATRICK H. RAFFERTY.
EDWARD H. MARSH.	THOMAS J. BARKER.
ALFRED E. MANN.	PATRICK RAFFERTY.
HORACE D. RUNEY.	WILLIAM A. FRINK.
JOHN DUCEY.	GEORGE F. MCKENNA.
EDWARD MCCAFFREY.	

POLICE DEPARTMENT.

MELVILLE C. PARKHURST, *Chief.*

ROBERT R. PERRY, <i>Captain.</i>	SAMUEL R. DOW, <i>Sergeant.</i>
EDWARD MCGARR, <i>Sergeant.</i>	CHRIS. C. CAVANAGH, <i>Sergeant.</i>
DENNIS KELLEY, <i>Sergeant.</i>	PHINEAS W. SKINNER.
JOHN E. FULLER.	SAMUEL A. BROWN.
ALBION L. STAPLES.	JOHN HAFFORD.
JUDSON W. OLIVER.	GEORGE A. BODGE.
GEORGE W. BEAN.	THEODORE E. HERON.
GEORGE L. SMITH.	GEORGE H. CARLETON.
EDWARD M. CARTER.	HUBERT H. MILLER.
JOHN F. JOHNSON.	FRANCIS A. PERKINS.
EUGENE A. CARTER.	CHARLES S. THRASHER.
EDWARD E. HAMBLIN.	WILLIAM H. JOHNSON.
CHARLES E. WOODMAN.	JOHN G. KNIGHT.
ARTHUR E. KEATING.	JACOB W. SKINNER.
STEPHEN S. SMITH.	DAVID A. BOLTON.
GEORGE T. E. COLES.	JAMES M. HARMON.
EUGENE H. GAMMON.	MICHAEL T. KENNEDY.
IRA S. CARLTON.	EZRA A. DODGE.
CHARLES W. STEVENS.	ULYSSES G. SKINNER.
MELVILLE C. PARKHURST, <i>Lock-up Keeper.</i>	

MAYOR'S INAUGURAL ADDRESS.

CITY OF SOMERVILLE.

IN BOARD OF MAYOR AND ALDERMEN, {
January 13, 1892. }

ORDERED, That the committee on printing be and is hereby authorized and instructed to have printed, for public use, six hundred copies of the address delivered by his Honor the Mayor at the inauguration of the present City Government, the expense incurred to be charged to Printing and Stationery account.

GEORGE I. VINCENT, *Clerk.*

IN COMMON COUNCIL, January 13, 1892.

Read twice and adopted in concurrence.

CHARLES S. ROBERTSON, *Clerk.*

Approved:

January 15, 1892.

WILLIAM H. HODGKINS, *Mayor.*

INAUGURAL ADDRESS
OF
HON. WILLIAM H. HODGKINS,
DELIVERED JAN. 4, 1892.

Intrusted by our fellow-citizens with the conduct of the public affairs of the city during the present year, we assemble to-day, gentlemen of the City Council, to subscribe to the oath of office prescribed by the city charter; and formally organize the city government of 1892. As we take up the new, or added, responsibilities connected with the management of municipal government, it is fitting that we invoke the favor of Almighty God, that our city may be exempt from tumult and calamity, that we may be sustained by that power which ruleth over all, and that the government in all its departments may be administered in that spirit of righteousness which exalteth the nation.

Since the organization of the first city government, twenty years ago, its has been customary for the newly-inducted mayor to present to the City Council at its inauguration a somewhat extended report of the condition of the various departments of the public service. In the preparation of this address it has seemed to me proper to depart somewhat from this custom, for the reason that I approach the duties of public office after an interval of seventeen years, while all the members of the new Board of Aldermen and six members of the Common Council have been connected with the government during the past year, and some of them for two or more years, and are, in consequence, already familiar with the condition of these departments. Besides, I am happy to say that my predecessor at the closing session of the City Council of 1891, in a valedictory address which has been published in the papers, presented a synopsis of the work accomplished during the past three years, including also a brief statement of the financial condition of the city at the close of the year.

This, it seems to me, will prove valuable to us all, and precludes the necessity of extended comment at this time. I have endeavored to improve the limited opportunity afforded me since the close of the year to acquaint myself with the condition of some of the departments, and all the reports I have received will be submitted to you at an early day. In the discharge of your official duty they will soon claim your careful consideration. They will be submitted in such fulness of detail as will enable you to receive all the information which I now possess.

It is difficult, if not impossible, for the mayor-elect, in the preparation of an inaugural address, to refer to all, or even many, of the important topics which will soon demand the action of the City Council, and the city charter has wisely provided that the mayor "shall from time to time communicate to both boards such information and recommend such measures as the business of the city may in his opinion require." I may desire to avail myself of this privilege as I become more familiar with the needs of the city.

I deem it advisable to include in this address the report of the city treasurer as it has been submitted to me. In it he states fully and in interesting detail the condition of the

FINANCES.

From the last annual report it appears that the funded debt of the city January 1, 1891, was as follows:—

Funded Debt, City Loan	\$678,000
Funded Debt, Water Loan	379,500
Total Funded Debt	<u>\$1,057,500</u>

The debt was increased during the year as follows:—

For the completion of the Charles G. Pope School-house in Ward Two (Prospect Hill District) . .	\$14,000
For the completion of the Jacob T. Glines School-house in Ward Three	12,000
For the completion of the Highland Schoolhouse addition	5,000
For the extension and improvement of the Water Works	10,000
For the cost of gravel land on North street	<u>4,000</u>
Total increase	\$45,000

The debt was decreased during the year by the payment from the tax levy of the following:—

City Loan Bonds \$57,000

Leaving the Funded Debt January 1, 1892, \$1,045,500, classified as follows, viz.:—

City Loan Bonds bearing interest at 4 per cent.	\$470,000
“ “ “ “ “ “ 5 “	200,000
Water Loan Bonds “ “ “ 4 “	238,000
“ “ “ “ “ 5 “	127,500
“ “ “ “ “ 5½ “	10,000
Total	<u>\$1,045,500</u>

The above represents the net indebtedness of the city; the unfunded liabilities, for temporary loans, etc., being equalled by its assets, which consist of uncollected taxes, sewer and sidewalk assessments, etc.

The following tables are respectfully submitted for future reference:—

YEAR.	Amount of Funded Debt.	Increase of Funded Debt.	Reduction of Funded Debt by Contribution to Sinking Funds.	Reduction of Funded Debt by Annual Payments.	Tax Rate per \$1,000 of Valuation.
Town . . .	\$593,349	.	.	.	.
1872 . . .	643,354	\$50,005	.	.	.
1873 . . .	809,354	166,000	.	.	.
1874 . . .	1,419,854	610,500	.	.	.
1875 . . .	1,571,854	152,000	.	.	.
1876 . . .	1,606,854	45,000	\$45,130 62	\$10,000	\$2 07
1877 . . .	1,606,854	10,000	48,828 58	10,000	2 30
1878 . . .	1,596,854	.	51,004 64	10,000	2 91
1879 . . .	1,585,000	.	53,061 76	11,854	3 42
1880 . . .	1,585,000	.	55,739 35	.	2 72
1881 . . .	1,585,000	.	58,498 64	.	2 59
1882 . . .	1,585,000	.	61,390 59	.	2 65
1883 . . .	1,585,000	.	64,479 01	.	2 70
1884 . . .	1,585,000	.	67,719 33	.	2 78
1885 . . .	*1,525,000	.	71,305 66	.	2 87
1886 . . .	1,525,000	.	66,894 23	.	2 57
1887 . . .	1,525,000	.	70,252 88	.	2 56
1888 . . .	*860,500	25,000	.	37,000	1 28
1889 . . .	952,500	130,000	.	38,000	1 27
1890 . . .	1,057,500	150,000	.	45,000	1 38
1891 . . .	1,045,500	45,000	.	57,000	1 55

* Sinking funds applied.

YEAR.	VALUATION.	TAX LEVY.	RATE.
1872 . . .	\$22,755,325 . . .	\$274,374 45 . . .	\$13 00
1873 . . .	29,643,100 . . .	389,214 48 . . .	12 80
1874 . . .	30,837,700 . . .	473,235 50 . . .	15 00
1875 . . .	31,317,000 . . .	518,161 40 . . .	16 20
1876 . . .	26,573,400 . . .	504,745 24 . . .	18 60
1877 . . .	25,479,400 . . .	471,789 14 . . .	18 10
1878 . . .	20,976,900 . . .	409,497 10 . . .	19 00
1879 . . .	18,950,100 . . .	352,553 80 . . .	18 00
1880 . . .	20,458,100 . . .	402,927 71 . . .	19 10
1881 . . .	22,569,100 . . .	452,945 45 . . .	19 50
1882 . . .	23,162,200 . . .	425,721 16 . . .	17 80
1883 . . .	23,812,900 . . .	411,645 43 . . .	16 70
1884 . . .	24,331,100 . . .	418,756 26 . . .	16 60
1885 . . .	24,878,400 . . .	428,605 44 . . .	16 60
1886 . . .	26,003,200 . . .	416,987 28 . . .	15 40
1887 . . .	27,471,800 . . .	424,309 14 . . .	14 80
1888 . . .	28,765,400 . . .	421,458 60 . . .	14 00
1889 . . .	30,004,600 . . .	440,324 40 . . .	14 00
1890 . . .	32,557,500 . . .	447,704 00 . . .	14 00
1891 . . .	36,843,440 . . .	539,127 10 . . .	14 00

To provide for the payment of the current expenses, State and County taxes, and debt requirements for the past year, the annual tax levy was made as follows:—

Real Estate, valuation	\$32,767,200
Personal Property, valuation	4,076,200
Total valuation	<u>\$36,843,400</u>
A rate of \$14.00 on \$1,000 valuation, with 11,658 polls assessed at \$2.00, and seven (women) at 50 cents, gives the total amount of the tax levy	\$539,127 10

The appropriations provided for by the tax levy were as follows:—

CURRENT EXPENSES.

(Limited by the provisions of Chapter 312, Acts and Resolves of 1885.)

Fire Department	\$32,000 00
Health Department	7,000 00
Highways	45,000 00
Indigent Soldiers and Sailors	500 00
Miscellaneous	6,500 00
Ordinances (revising)	500 00
Police	<u>20,000 00</u>

Amount carried forward \$111,500 00

<i>Amount brought forward</i>	\$111,500 00
Police Station Incidentals	2,500 00
Public Library	3,000 00
Public Grounds	3,500 00
Printing and Stationery	6,000 00
Relief and Burial of Indigent Soldiers and Sailors,	3,000 00
Salaries	28,200 00
School Contingent	21,000 00
School Fuel	7,500 00
Schoolhouse Incidentals	13,550 00
School Teachers' Salaries	102,000 00
Sewers	10,000 00
Sidewalks	10,000 00
Street Lights	22,500 00
Support of Poor	14,000 00
Watering Streets	4,000 00
Total amount that could legally be appropriated, —————	\$362,250 00

DEBT REQUIREMENTS.

Interest	\$55,000 00
Reduction of Funded Debt	57,000 00
	<u>112,000 00</u>

Total amount of appropriations provided by the
tax levy \$474,250 00

By the provisions of the new ordinance, appropriations were made from the income of the water works as follows :—

Water Maintenance	\$20,000 00
Water Works Extension	35,000 00
Total	<u>\$55,000 00</u>

Several important matters have been referred to you by the last City Council, and will soon engage your attention. I mention them in the order in which they have been given to me from the records of the city clerk :—

1. Plans and specifications which have been procured for the enlargement of house of Engine Number One, at the corner of Highland avenue and Walnut street.
2. Completion of the Broadway Parkway, in accordance with plans submitted by the highway committee of 1891.
3. Proposition of the trustees of J. C. Ayer estate to give land for a park between Cedar street and Willow avenue.
4. The subject of acquiring land for the enlargement of the pro-

posed Powder House Park. The act of the Legislature of 1891, authorizing taking of land for this purpose, is inserted for reference.

[Chap. 311.]

An Act to authorize the City of Somerville to lay out and maintain a public park. *Be it enacted, etc., as follows:—*

SECTION 1. The city of Somerville by its city council may, at any time within three years after the passage of this act, take, maintain, and hold in fee or otherwise, and by gift upon such conditions as the city council may deem advisable, or by purchase or otherwise, for the purpose of a public park, the land with the structures thereon upon which the Powder House is located in said city, and so much of said lands adjacent thereto or in the vicinity of said Powder House as said city council shall deem advisable.

SECT. 2. The said city shall, within sixty days after taking of any lands as aforesaid otherwise than by purchase or gift, file and cause to be recorded in the registry of deeds for the county of Middlesex a description thereof sufficiently accurate for identification, with a statement of the purpose for which the same were taken.

SECT. 3. The said city shall pay all damages sustained by any person or corporation in property, by the taking of any lands or by any other thing done by said city under the authority of this act. Any person or corporation sustaining damages as aforesaid under this act, who fails to agree with said city as to the amount of damages sustained, may have the damages assessed and determined in the manner provided by law when land is taken for the laying out of highways, on application at any time within the period of three years from the taking of such land or other property or the doing of such other injury under the authority of this act.

SECT. 4. All acts heretofore done by said city in regard to taking said lands or any of them, by gift or otherwise, for park purposes are hereby ratified and made lawful.

SECT. 5. No money shall be appropriated at any time for the laying out or maintaining of said park except upon a two-thirds vote of each branch of the city council taken by ye and nay.

SECT. 6. This act, except as provided in the following section, shall not take effect unless accepted by said city of Somerville upon a majority vote of each branch of the city council taken by ye and nay.

SECT. 7. So much of this act as authorizes the submission of the question of its acceptance to the city council of Somerville shall take effect upon its passage.

[Approved May 7, 1891.]

5. Subject of laying a trunk sewer in location of the Boston & Lowell Railroad; and petitions for various sewers.

6. Subject of the expediency of the city owning its own water supply.

REPORTS.

The reports of the heads of various departments include requests and recommendations which I will briefly state.

The chief engineer of the fire department requests the City Council to provide means for erecting the proposed addition to the house of Engine Number One, to furnish accommodations for a chemical engine, and the apparatus of the fire alarm telegraph system, as appears in plans approved by the committee on fire department of 1891; and that preliminary measures be taken to provide a new station in Ward One sufficient in size to provide for a steam fire-engine, hose wagon, and ladder truck.

The chief of police suggests that the number of patrolmen should be increased from year to year to keep pace with the increase of population, and that the ratio of increase should be, at least, one new man for every one thousand of the population. The suggestion seems to be reasonable, and I commend it to your consideration.

The overseers of the poor will, in their forthcoming report, I am informed, recommend the erection of a brick building on one of the city lots to be used as an almshouse, the cost, including boiler and piping, not to exceed \$15,000. They are of the opinion that a necessity for such a building exists for emergency cases, as well as to provide a proper place to care for the poor who need a home at the city's expense. This subject has been fully discussed in the inaugural addresses of two of my predecessors, and I submit the subject in this form, awaiting the annual report of the overseers of the poor.

There are topics of a public nature which may be discussed more advantageously in the beginning of a new administration than at any other time, and I will refer to some which seem to require attention and may soon demand our action. The Somerville of to-day is developing rapidly and making vigorous strides, both in population and valuation. The city of 1872, with a population estimated at 16,000, and an assessed valuation the year before of \$15,775,000, has increased in twenty years to a population estimated to be 43,000 and an assessed valuation of \$36,843,480. During this period of progress our resources have been severely tested in providing schoolhouses, streets, sewers, and other public conveniences required by the great increase of population. The growth at the first was in isolated locali-

ties, in some cases widely separated, so much so that the city appeared to be a succession of villages, or small towns, each with its churches, schoolhouses, its local attachments, and, possibly, prejudices. As means of access both by steam and street railway have been provided, the various sections have expanded and stretched out toward each other. These years have been the formative period of what is to be a compact, vigorous city. It has been fortunate in its government. Cool heads have guided its affairs, strong, steady hands have borne its burdens, and though at times taxation has been somewhat heavy in consequence of public improvements, the government has been conservative and equitable. The wise laws enacted to prevent municipal extravagance have been zealously enforced; the credit of the city has not only been unimpaired, but its securities have been among the most desirable for safe investment. The moral character of its inhabitants has been as creditable as its financial record. Its schools are considered equal to those of any other city. Its churches are increasing steadily in number and influence; while its constant, unwavering attitude toward the liquor traffic has placed it in the fore front of the "no-license" cities of the Commonwealth.

The responsible duty of maintaining the fair reputation and of advancing the material prosperity of the city has been laid upon us. Any plan or system designed to accomplish this desired result will merit and receive our careful consideration. There is much we would all gladly do to render the name of Somerville synonymous with all that stands for enterprise and public spirit, and even civic munificence. While we are not favored as other cities not far removed from us with citizens of wealth who have contributed of their means and perpetuated their memory in the gifts of costly school and public buildings, — while all these, so desirable in themselves, mean to Somerville not only considerable expenditure of the public money, but the closest scrutiny of the public need, yet I believe that the time is at hand when these and kindred subjects must be carefully considered with special reference to the future welfare of our city.

I am satisfied from personal observation and reliable reports that our highways require considerable outlay to place them in satisfactory condition, and that the means to accomplish this should be provided as soon as possible. I believe that the tax-payers would not object to a more liberal expenditure in the improvement and maintenance of streets. The appropriations for highways have not varied much

for several years. When we consider the rapid development of our territory, the demand for new and continual repairs required on the old streets, together with the disproportion of appropriations to the work to be done, the members of the City Government who have had charge of the highway department deserve praise for the work accomplished with the means at their command. The condition of our streets first attracts the attention of one seeking a home in our city. They are the first outward indication of what the city furnishes the tax-payer in return for his money. Somerville avenue, Medford street, Washington street, Broadway near the Boston line, and other principal thoroughfares, seem to require more or less extensive repairs. In this connection I suggest that you consider the expediency of paving Somerville avenue. I do not know that it would be possible to accomplish what has been here suggested within the narrows limits of a single year; but careful consideration of the street department may result in the adoption of a comprehensive plan which shall form a basis of systematic improvements to be carried forward from year to year until completed. I believe this to be dictated by a true economy, which will prevent a large annual expenditure for merely temporary repairs.

There are a few subjects, to which I desire to call the attention of the City Council, that it seems to me are worthy of your favorable consideration and approval, if, in your opinion, the financial condition will admit.

1. That a larger amount be appropriated for the care and maintenance of streets; that our principal thoroughfares be carefully examined with a view to the condition of each, and that the Broadway Parkway be completed according to plans already matured.

2. The subject of providing additional accommodations for the High School will probably be brought to your attention at an early date. I am not in possession of sufficient evidence to warrant a formal recommendation. The subject was considered last year. My predecessor and, I believe, a former City Council favored an addition on the west side of the building. Some definite action is considered imperative. In the regular course of business some plan will be submitted to the City Council, and I bespeak for it your careful consideration.

3. I favor a request made by the chairman of the trustees of the Public Library for a moderate increase of appropriation for the

purchase of books. We all, I believe, will concur in the opinion that the library is well managed. Many of the books most in use are worn out and should be replaced. The number of issues of books now exceeds 100,000 annually. Of late the trustees have sought to increase the efficiency of the library by adding the histories of the surrounding cities and towns, and gathering all the information possible relating to the early history of Somerville and its families. Books of this nature soon become scarce and valuable, and it is more economical to purchase them at the time of publication than after they have passed out of print.

4. I recommend a proper observance of the semi-centennial anniversary of the incorporation of Somerville. An association composed of many of our citizens has been organized to secure a celebration of the interesting event, and prepare a programme, which shall be honorable in itself and worthy of a permanent record. The date of the Act of Incorporation is March 3, 1842. Ordinarily it is considered desirable to celebrate such events on the day of the event commemorated ; but owing to the fact that the weather in March is likely to be inclement, and will preclude such an observance as will please the majority of our citizens, it has been deemed advisable to postpone the celebration until the Seventeenth of June. Such a celebration will stimulate the public spirit of our citizens and tend to develop more interest in the history of the place. I am informed that the association may request financial aid from the City Council to assist in defraying the expenses of the celebration. Should such a request be received, and the appropriation can be legally made, I recommend that it be granted, subject to such limitations as the City Council may deem advisable.

5. I favor the erection of a memorial to commemorate the services of the soldiers and sailors of Somerville who served in the war which crushed rebellion, destroyed slavery, and preserved the Union of the States. Whether the memorial shall take the form of a substantial and useful public building, or a monumental shaft, as suggested by my predecessor one year ago, I will not now presume to say. If I believe, as has been said, that "the truest and best memorial already exists in the hearts of the people," I also believe that the truest and best expression of it should stand in some visible memorial solemnly dedicated to that purpose. I believe that the patriotic spirit exhibited by the tax-payers two years ago in their petition for

the erection of a memorial still lives. This is not the time or place to discuss the subject, nor am I wedded to any plan, but I commend it to your careful consideration in the firm belief that the city within whose limits lies ground made historic by the Continental Army in the early days of the Revolution will not fail to commemorate by an enduring memorial the services of her own brave sons who sacrificed life, or suffered hardship and privation that the American Republic might not perish from the earth.

GENTLEMEN OF THE CITY COUNCIL :—

Eighteen years ago, as a member of the Common Council of 1874, I subscribed to the oath of office and succeeded in the presidency of the Council the gentleman who to-day retires from the mayoralty. It is a singular coincidence that I am here to-day to subscribe to a similar oath, and follow him in the highest office our citizens can confer. I will not deny that I receive this trust with some degree of solicitude. The duties so familiar to him are new and untried to me. He has reached the goal and won his prize, while my feet first touch the course. I am grateful to my fellow-citizens for the confidence they have reposed in me. I subscribe to the oath of office without any mental reservation whatever. I shall devote myself with such capacity and energy as I possess to the administration of this high trust, and will do all in my power to aid you in the responsibilities to which you are called. I ask your co-operation and support in efforts to advance the highest interests of the city. Without it all personal endeavors may fail. The people expect us to be faithful. Let us be loyal servants. Let it be our sincere desire and lofty purpose to render honest, impartial, disinterested service, guided by no faction, controlled by no party or creed. Thus shall we secure the richest of all rewards—the consciousness of doing right.

REPORT
OF THE
TREASURER AND COLLECTOR OF TAXES.

CITY OF SOMERVILLE.

IN BOARD OF ALDERMEN, January 25, 1893.

Referred to committee on finance, and sent down for concurrence.

GEORGE I. VINCENT, *Clerk*.

IN COMMON COUNCIL, January 27, 1893.

Referred to committee on finance in concurrence.

GEORGE I. VINCENT, *Clerk pro tem*.

IN COMMITTEE ON FINANCE, February 14, 1893.

To the City Council of Somerville: The committee on finance, to which was referred the annual report of the treasurer and collector of taxes for the year 1892, reports that the treasurer's books have been examined by this committee, and compared with the books of the auditor, also with the statements received from the several committees, boards, and officers of the city.

We have also verified the amount of cash on hand by actual count, and by the reports from the officers of the banks of deposit, and have discovered no errors.

The committee found that the books and accounts of the treasurer were kept in a neat and business-like manner. It is therefore recommended that the report be accepted and printed in the annual reports of the year 1892.

WILLIAM H. HODGKINS, }
FRANK E. FITTS, }
FRANKLIN F. PHILLIPS, }
FRED W. GILBERT, }
LEWIS STOCKBRIDGE, }
FRED'K A. P. FISKE, }
FRANK W. KAAN, }
CALVIN H. WHITNEY, }

Committee.

IN BOARD OF ALDERMEN, February 15, 1893.

Accepted and sent down for concurrence.

GEORGE I. VINCENT, *Clerk*.

IN COMMON COUNCIL, February 15, 1893.

Accepted in concurrence.

CHARLES S. ROBERTSON, *Clerk*.

CITY OF SOMERVILLE.

TREASURER'S OFFICE, January 20, 1893.

To the Honorable the Mayor and City Council of the City of Somerville :

GENTLEMEN, — The undersigned presents herewith the twenty-first annual report of the financial condition of the city, and a statement showing in detail the receipts and disbursements for the year ending December 31, 1892.

The value of the property of the city December 31, 1891, was \$1,685,637.46. The property acquired during the year was as follows: —

Nathan Tufts Park	\$21,591 45
Edgerly Schoolhouse addition	11,217 50
Water-Works extension	34,863 17
Land on Tufts street	2,142 00

The Union Schoolhouse land and building, situated on Prospect street, valued in the inventory at \$2,600.00, was sold during the year for the sum of \$2,340.00, and the gravel-land in Winchester, valued at \$500.00, was sold for that sum, making the value of the public property December 31, 1892, as per Table A, \$1,752,351.58.

The funded debt December 31, 1891, as per Table B of the last annual report, was \$1,045,500.00.

Water Loan Bonds Nos. 66 to 76, interest at five per cent.	\$11,000 00
Water Loan Bonds Nos. 78 to 88, interest at five per cent.	11,000 00
Water Loan Bond No. 281, interest at four per cent.	1,000 00
Water Loan Bonds Nos. 309 to 311, interest at four per cent.	3,000 00
<i>Amount carried forward</i>	<i>\$26,000 00</i>

<i>Amount brought forward</i>	\$26,000 00
Water Loan Bonds Nos. 395 and 396, interest at four per cent.	2,000 00
amounting to	<u>\$28,000 00</u>

became due during the year and were renewed by issuing the following :—

Water Loan Bonds Nos. 448 to 458, payable 1900, interest at four per cent.	\$11,000 00
Water Loan Bonds Nos. 459 to 468, payable 1901, interest at four per cent.	10,000 00
Water Loan Bonds Nos. 469 to 475, payable 1902, interest at four per cent.	7,000 00
amounting to	<u>\$28,000 00</u>

The following city loan bonds became due during the year, and were paid from the appropriation and the dividends received from the Maverick National Bank, viz. :—

City Loan Bonds Nos. 721 to 798, interest at four per cent.	\$78,000 00
City Loan Bonds Nos. 924 to 928, interest at four per cent.	5,000 00
City Loan Bonds Nos. 1,013 to 1,022, interest at four per cent.	10,000 00
City Loan Bonds Nos. 1,107 to 1,110, interest at four per cent.	4,000 00
City Loan Bonds Nos. 1,147 to 1,153, interest at four per cent.	7,000 00
amounting to	<u>\$104,000 00</u>

To provide funds for current expenses in anticipation of the dividends to be received from the Maverick National Bank the following bonds were issued :—

City Loan Bonds Nos. 1,224 to 1,233, payable 1893, interest at four per cent.	\$10,000 00
<i>Amount carried forward</i>	<u>\$10,000 00</u>

<i>Amount brought forward</i>	\$10,000 00
City Loan Bonds Nos. 1,234 to 1,243, payable 1894, interest at four per cent.	10,000 00
City Loan Bonds Nos. 1,244 to 1,253, payable 1895, interest at four per cent.	10,000 00
City Loan Bonds Nos. 1,254 to 1,263, payable 1896, interest at four per cent.	10,000 00
City Loan Bonds Nos. 1,264 to 1,273, payable 1897, interest at four per cent.	10,000 00
City Loan Bonds Nos. 1,274 to 1,283, payable 1898, interest at four per cent.	10,000 00
City Loan Bonds Nos. 1,284 to 1,293, payable 1899, interest at four per cent.	10,000 00
City Loan Bonds Nos. 1,294 to 1,303, payable 1900, interest at four per cent.	10,000 00
City Loan Bonds Nos. 1,304 to 1,313, payable 1901, interest at four per cent.	10,000 00
City Loan Bonds Nos. 1,314 to 1,323, payable 1902, interest at four per cent.	10,000 00
amounting to	<hr/> \$100,000 00

To provide for the cost of paving Union square and parts of Somerville and Webster avenues, the following bonds, authorized by a special act of the Legislature, and not to be considered or reckoned in determining the limit of indebtedness, were issued:—

City Loan Paving Bonds Nos. 1 to 5, payable 1893, interest at four per cent.	\$5,000 00
City Loan Paving Bonds Nos. 6 to 10, payable 1894, interest at four per cent.	5,000 00
City Loan Paving Bonds Nos. 11 to 15, payable 1895, interest at four per cent.	5,000 00
City Loan Paving Bonds Nos. 16 to 20, payable 1896, interest at four per cent.	5,000 00
City Loan Paving Bonds Nos. 21 to 25, payable 1897, interest at four per cent.	5,000 00
<i>Amount carried forward</i>	<hr/> \$25,000 00

<i>Amount brought forward</i>	\$25,000 00
City Loan Paving Bonds Nos. 26 to 50, payable 1898, interest at four per cent.	5,000 00
City Loan Paving Bonds Nos. 31 to 35, payable 1899, interest at four per cent.	5,000 00
City Loan Paving Bonds Nos. 36 to 40, payable 1900, interest at four per cent.	5,000 00
City Loan Paving Bonds Nos. 41 to 45, payable 1901, interest at four per cent.	5,000 00
City Loan Paving Bonds Nos. 46 to 50, payable 1902, interest at four per cent.	5,000 00
City Loan Paving Bonds Nos. 51 to 55, payable 1903, interest at four per cent.	5,000 00
City Loan Paving Bonds Nos. 56 to 60, payable 1904, interest at four per cent.	5,000 00
City Loan Paving Bonds Nos. 61 to 65, payable 1905, interest at four per cent.	5,000 00
City Loan Paving Bonds Nos. 66 to 70, payable 1906, interest at four per cent.	5,000 00
City Loan Paving Bonds Nos. 71 to 75, payable 1907, interest at four per cent.	5,000 00
City Loan Paving Bonds Nos. 76 to 80, payable 1908, interest at four per cent.	5,000 00
City Loan Paving Bonds Nos. 81 to 85, payable 1909, interest at four per cent.	5,000 00
City Loan Paving Bonds Nos. 86 to 90, payable 1910, interest at four per cent.	5,000 00
City Loan Paving Bonds Nos. 91 to 95, payable 1911, interest at four per cent.	5,000 00
City Loan Paving Bonds Nos. 96 to 100, payable 1912, interest at four per cent.	5,000 00
amounting to	<hr/> \$100,000 00
making the funded debt December 31, 1892, as per Table B, \$1,141,500.00.	

The funded debt was further increased during the year by appropriations made as follows : —

Nathan Tufts Park	\$25,000 00
Schoolhouse, Edgerly improvement	20,000 00
Sewers in West Somerville	8,000 00
	<hr/>
amounting to	\$53,000 00

In consequence of the opinion of the attorney-general, that money borrowed temporarily in anticipation of the collection of taxes should be included in ascertaining the authorized limit of municipal indebtedness, the bonds for the above mentioned appropriations, amounting to \$53,000.00, were not issued. But as the money has been expended and must hereafter be provided, either by issuing bonds or including the amount in the tax levy, it is proper to consider it part of the funded debt, which, after deducting a balance of \$40,081.75 standing to the credit of reduction of funded debt account, makes the net funded debt amount to \$1,154,418.29.

The current expenses, public improvements, state and county taxes, and debt requirements were provided for by the following

RESOURCES.

Assessors' warrant for the tax levy, assessed upon the polls and estates of the inhabitants as follows, viz. : —

Real estate, valuation	\$34,950,800 00
Personal property, valuation	3,142,300 00
	<hr/>
Total valuation	\$38,093,100 00

A rate of \$15.00 on \$1,000 valuation, with
 9,855 single polls,
 2,620 property polls,

12,475 polls at \$2.00 each, and 22 (women) at \$0.50 each, gives the total amount of the tax levy	\$596,357 50
Borrowed on funded debt account to provide for the cost of public improvements	153,000 00
Revenue from the water works	77,640 91
	<hr/>
<i>Amount carried forward</i>	<i>\$826,998 41</i>

<i>Amount brought forward</i> . . .	\$826,998 41
State corporation and bank taxes . . .	17,250 07
Received from various sources . . .	43,822 34
Received Maverick Bank dividends . . .	77,185 00
Unexpended balances from 1891 . . .	12,725 43
Total amount of resources . . .	<u>\$977,981 25</u>

The appropriations, credits, and balances of the various accounts were as follows : —

Accounts.	Appropriations.	Credits.	Expenditures and Balances.
Broadway Parkway : —			
Received from Overlay and Abatement account . . .	\$4,500 00		
Received from Schoolhouse in Ward Three account . . .		\$773 87	
Received from Highland Schoolhouse Addition account . . .		23 41	
Received for loam, etc. . . .		251 95	
Expenditures			\$5,545 17
Unexpended balance			4 06
Fire Department : —			
Appropriation	37,000 00		
Received for old materials, etc.		194 73	
Expenditures			40,991 94
Deficiency			3,797 21
Health Department : —			
Appropriation	8,000 00		
Received for permits, licenses, etc.		263 00	
Expenditures			11,816 76
Deficiency			3,553 76
Highways : —			
Appropriation	55,000 00		
Received for labor and materials,		4,199 70	
Expenditures			58,863 29
Unexpended balance			336 41

Accounts.	Appropriations.	Credits.	Expenditures and Balances.
Highways, Paving Union square and parts of Somerville and Webster avenues :—			
Appropriation, Funded Debt ac- count	\$100,000 00		
Received for labor and materials,		\$351 86	
Expenditures			\$96,249 77
Balance unexpended to 1893 .			4,102 09
Indigent Soldiers and Sailors :—			
Appropriation	500 00		
Received from State of Massa- chusetts		587 00	
Expenditures			1,174 00
Deficiency			87 00
Interest :—			
Appropriation . . \$57,000 00			
Transferred to other accounts . . 12,500 00			
	44,500 00		
Received interest on taxes, etc.		10,013 46	
Expenditures			42,909 26
Unexpended balance			11,604 20
Miscellaneous :—			
Appropriation . . \$5,000 00			
Transferred from In- terest account . . 3,700 00			
	8,700 00		
Received costs on taxes and assessments, licenses, etc. .		3,826 85	
Expenditures			17,125 85
Deficiency			4,599 00
Nathan Tufts Park :—			
Appropriation, Funded Debt ac- count	25,000 00		
Received for old house, etc.		170 50	
Expenditures			21,761 95
Unexpended balance to 1893 .			3,408 55

Accounts.	Appropriations.	Credits.	Expenditures and Balances.
Overlay and Abatement:—			
Appropriation	\$22,271 95		
Transferred to other accounts	8,823 99		
	<u>\$13,447 96</u>		
Applied and to be applied to abatements on taxes			\$13,447 96
Police:—			
Appropriation	24,000 00		
Received bank and corporation taxes		\$17,250 07	
Received court fees, fines, etc.		2,071 90	
Expenditures			42,989 21
Unexpended balance			332 76
Police Station Incidentals:—			
Appropriation	3,500 00		
Received for rent		430 00	
Expenditures			3,775 68
Unexpended balance			154 32
Printing and Stationery:—			
Appropriation	6,300 00		
Received discount on bill . . .		8 25	
Expenditures			6,853 46
Deficiency			545 21
Public Grounds:—			
Appropriation	\$4,300 00		
Transferred from In- terest account	1,400 00		
	<u>5,700 00</u>		
Received for grading		567 12	
Expenditures			6,259 60
Unexpended balance			7 52
Public Library:—			
Appropriation	4,000 00		
Received, dog licenses, fines, etc.		1,462 01	
Balance from 1891		3 48	
Expenditures			5,800 93
Deficiency balance to 1893 . .			335 44

Accounts.	Appropriations.	Credits.	Expenditures and Balances.
Reduction of Funded Debt : —			
Appropriation	\$60,000 00		
Received Maverick Bank dividends		\$77,185 00	
Received of City of Boston, water rates		6,896 71	
Expenditures			\$104,000 00
Balance to be expended in 1893,			40,081 71
Relief and Burial of Indigent Soldiers and Sailors : —			
Appropriation	3,000 00		
Received from State of Massachusetts		87 50	
Expenditures			4,029 92
Deficiency			942 42
Salaries : —			
Appropriation	31,085 00		
Expenditures			31,451 20
Deficiency			366 20
School Teachers' Salaries : —			
Appropriation	108,000 00		
Expenditures			108,058 81
Deficiency			58 81
School Contingent : —			
Appropriation	13,000 00		
Received for tuition of non-resident pupils, etc.		65 00	
Expenditures			13,196 81
Deficiency			131 81
School Contingent, Janitors' Salaries : —			
Appropriation	10,000 00		
Expenditures			9,794 92
Unexpended balance			205 08
School Fuel : —			
Appropriation	7,150 00		
Expenditures			7,147 68
Unexpended balance			2 32

Accounts.	Appropriations.	Credits.	Expenditures and Balances.
Schoolhouse Incidentals :—			
Appropriation	\$10,000 00		
Transferred from Interest account	1,500 00		
	<u>\$11,500 00</u>		
Received proceeds of sale of land on Prospect street		\$2,340 00	
Received for old materials, etc.		137 07	
Expenditures			\$17,734 18
Deficiency			3,757 11
Schoolhouse in Ward Two :—			
Balance from 1891		600 00	
Expenditures			600 00
Schoolhouse in Ward Two, Prospect Hill District :—			
Balance from 1891		856 26	
Transferred from Highland Schoolhouse addition		294 62	
Expenditures			260 88
Unexpended balance to 1893			890 00
Schoolhouse, Edgerly addition :—			
Appropriation, Funded Debt account	20,000 00		
Expenditures			11,217 50
Unexpended balance to 1893			8,782 50
Schoolhouse in Ward Three :—			
Balance from 1891	\$773 87		
Transferred to Broadway Parkway account	773 87		
	<u></u>		
Schoolhouse, Highland addition :—			
Balance from 1891	\$318 03		
Transferred to other accounts	318 03		
	<u></u>		
Semi-Centennial Celebration :—			
Transferred from Interest account	5,700 00		
Expenditures			5,535 11
Unexpended balance to 1893			164 89

Accounts.	Appropriations.	Credits.	Expenditures and Balances.
Sewers :—			
Appropriation	\$10,000 00		
“ Funded Debt ac- count	8,000 00		
Received for permits, etc. . . .		\$656 54	
Expenditures			\$15,550 29
Unexpended balance to 1893 . .			3,106 25
Sidewalks :—			
Appropriation	10,000 00		
Received for labor, material, etc.		617 54	
Expenditures			10,661 53
Deficiency			43 99
State of Massachusetts :—			
Appropriation	27,457 50		
Expended, State Tax			27,457 50
County of Middlesex :—			
Appropriation	30,657 03		
Expended, County Tax			30,657 03
Street Lights :—			
Appropriation	27,000 00		
Expended			26,529 45
Unexpended balance			470 55
Support of Poor :—			
Appropriation	14,000 00		
Received for support of paupers, aid furnished, etc.		3,099 90	
Expenditures			17,015 36
Unexpended balance			84 60
Watering Streets :—			
Appropriation	5,000 00		
Transferred from Interest acct.	200 00		
Received from abutters		7,984 77	
Expenditures			12,828 06
Unexpended balance			356 71
Water Loan Interest :—			
Received of City of Boston, water rates, including balance from 1891, \$5,150 80		15,895 00	
Expenditures			15,895 00

Accounts.	Appropriations.	Credits.	Expenditures and Balances.
Water Maintenance :—			
Received of City of Boston, water rates		\$29,000 00	
Received for labor and materials,		1,414 08	
Received from Water Service account		760 14	
Balance from 1891		599 58	
Expenditures			\$30,689 87
Unexpended balance to 1893 .			1,083 93
Water-works Extension :—			
Balance from 1891		4,423 41	
Received from City of Boston, water rates		31,000 00	
Received for labor and materials,		2,261 47	
Expenditures			37,124 64
Unexpended balance to 1893 .			560 24
State of Massachusetts :—			
Metropolitan Sewer Account :—			
Appropriation	\$3,136 02		
Expended, Sewer Tax			3,136 02
Excess and Deficiency :—			
Transferred from Overlay and Abatement account to provide for accounts overdrawn . . .	4,323 99		
	<hr/> \$749,357 50	<hr/> \$228,623 75	<hr/> \$977,981 25
	228,623 75		
	<hr/> \$977,981 25		<hr/> \$977,981 25

RECAPITULATION.

Appropriations as per tax levy . .	\$596,357 50
Appropriations as per Funded Debt account	153,000 00
Received, revenue from water works,	77,640 91
Received, State Bank and Corpora- tion Taxes	17,250 07
Received from various sources . .	43,822 34
Received Maverick National Bank dividends	77,185 00
<i>Amount carried forward . .</i>	<hr/> \$965,255 82

<i>Amount brought forward</i>	\$965,255 82	
Balance from 1891	12,725 43	
Expenditures		\$916,136 53
Balances to be expended in 1893		61,844 72
	<u>\$977,981 25</u>	<u>\$977,981 25</u>

The assets of the city available for the payment of its unfunded liabilities are as follows:—

Cash	\$39,653 03
City loan bonds	53,000 00
Public Library	335 44
Real-estate liens	888 40
Sewer assessments	5,143 96
Sidewalk assessments	5,571 00
State of Massachusetts, indigent soldiers and sailors,	573 00
State of Massachusetts, burial of indigent soldiers	
and sailors	175 00
State of Massachusetts, State aid	6,669 50
Taxes	179,403 80
Water-service assessments	1,722 00
Total amount of available assets	<u>\$293,135 13</u>

The liabilities are :—

Highways, paving Union square and parts of Somerville and Webster avenues	\$4,102 09
Nathan Tufts Park	3,408 55
Overlay and abatement	2,402 74
Overplus on tax sales	102 13
Reduction of funded debt	40,081 71
Schoolhouse in Ward Two, Prospect Hill District	890 00
Schoolhouse, Edgerly addition	8,782 50
Semi-Centennial Celebration	164 89
Sewer accounts	3,106 25
Sundry persons	450 10
Temporary loans	228,000 00
Water maintenance	1,083 93
Water-works extension	560 24
Total amount of unfunded liabilities	<u>\$293,135 13</u>

The financial condition of the city, exclusive of its public property, is as follows:—

City Loan Bonds bearing interest at 4 per cent.	\$466,000 00
“ “ “ “ “ “ 5 “ “ .	165,000 00
City Loan Paving Bonds bearing interest at 4 per cent.	100,000 00
City Loan Sewer Bonds bearing interest at 5 per cent.	35,000 00
Water Loan Bonds bearing interest at 4 per cent.	260,000 00
“ “ “ “ “ “ 5 “ “ .	105,500 00
“ “ “ “ “ “ 5½ “ .	10,000 00
City Loan Bonds not issued	53,000 00
Total amount of City Loan Bonds, \$819,000 00	
“ “ “ Water Loan Bonds, 375,500 00	
Total funded debt	<u>\$1,194,500 00</u>

There is standing to the credit of reduction of funded debt account the sum of \$40,081.71, of which \$33,185.00 is to be applied to the reduction of the city debt and \$6,896.71 to the reduction of the water debt, leaving the net funded debt December 31, 1892, as follows:—

Funded debt, city loan	\$785,815 00
Funded debt, water loan	368,603 29
Net indebtedness December 31, 1892 . . .	<u>\$1,154,418 29</u>
Total cash receipts for the year, including balance of \$37,007.03 from the year 1891 . . .	\$1,603,952 72
Total cash disbursements	<u>1,564,299 69</u>
Leaving in the treasury the sum of . . .	<u>\$39,653 03</u>

A detailed statement of the public property, funded debt, and the receipts and disbursements of the various accounts will appear in the appendix.

Respectfully submitted,

JOHN F. COLE,

Treasurer.

APPENDIX TO TREASURER AND COLLECTOR'S REPORT.

TABLE A.

PUBLIC PROPERTY DEC. 31, 1892.

Central Hill land (12 acres, 27,920 feet)		\$100,000 00
City Hall	\$10,000 00	
Furniture	3,000 00	
		<u>13,000 00</u>
Public Library		8,500 00
Public Library building		28,338 45
Steam fire-engine house	\$10,000 00	
Furniture	500 00	
Steam fire-engine and apparatus	4,000 00	
Steam fire-engine, hose carriage, and apparatus	2,000 00	
		<u>16,500 00</u>
High Schoolhouse	\$40,000 00	
Furniture	3,500 00	
Philosophical apparatus	500 00	
		<u>44,000 00</u>
Prescott Schoolhouse, land (21,444 feet) and building	\$40,000 00	
Furniture	2,000 00	
		<u>42,000 00</u>
Luther V. Bell Schoolhouse, land (23,396 feet) and building	\$40,000 00	
Furniture	3,000 00	
		<u>43,000 00</u>
<i>Amount carried forward</i>		<u>\$295,338 45</u>

<i>Amount brought forward</i>	.	.	.	.	\$295,338 45
Forster Schoolhouse, land (27,499 feet)					
and building	.	.	.	.	\$37,922 24
Furniture	.	.	.	.	1,500 00
					<hr/> 39,422 24
Morse Schoolhouse, land (29,109 feet)					
and building	.	.	.	.	\$56,334 95
Furniture	.	.	.	.	1,696 52
					<hr/> 58,031 47
Highland Schoolhouse, land (23,260 feet)					
and building	.	.	.	.	\$51,681 97
Furniture	.	.	.	.	1,624 60
					<hr/> 53,306 57
Lincoln Schoolhouse, land (17,662 feet)					
and building	.	.	.	.	\$14,742 17
Furniture	.	.	.	.	744 93
					<hr/> 15,487 10
Prospect Hill Schoolhouse, land (25,313 feet)					
and building	.	.	.	.	\$20,000 00
Furniture	.	.	.	.	600 00
					<hr/> 20,600 00
Jackson Schoolhouse, land (11,212 feet)					
and building	.	.	.	.	\$8,000 00
Furniture	.	.	.	.	300 00
					<hr/> 8,300 00
Bennett Schoolhouse, land (20,560 feet)					
and building	.	.	.	.	\$8,000 00
Furniture	.	.	.	.	300 00
					<hr/> 8,300 00
Webster Schoolhouse, land (11,050 feet)					
and building	.	.	.	.	\$8,000 00
Furniture	.	.	.	.	300 00
					<hr/> 8,300 00
Harvard Schoolhouse, land (9,810 feet)					
and building	.	.	.	.	\$2,500 00
Furniture	.	.	.	.	100 00
					<hr/> 2,600 00
<i>Amount carried forward</i>	.	.	.	.	\$509,685 83

<i>Amount brought forward</i>	\$509,685 83	
Edgerly Schoolhouse, land (26,428 feet)		
and building	\$42,000 00	
Furniture	1,100 00	
	<hr/>	43,100 00
Brastow Schoolhouse, land (10,019 feet)		
and building	\$6,000 00	
Furniture	250 00	
	<hr/>	6,250 00
Franklin Schoolhouse, land (33,017 feet)		
and building	\$14,000 00	
Furniture	300 00	
	<hr/>	14,300 00
Beach-street Schoolhouse, land (6,000 feet) and building	\$4,500 00	
Furniture	250 00	
	<hr/>	4,750 00
Spring Hill Schoolhouse, land (4,991 feet) and building	\$1,600 00	
Furniture	100 00	
	<hr/>	1,700 00
Davis Schoolhouse, Tufts street, land (38,152 feet) and building	\$19,748 22	
Furniture	726 99	
	<hr/>	20,475 21
Cummings Schoolhouse, School street, land (11,300 feet) and building,	\$14,643 21	
Furniture	714 16	
	<hr/>	15,357 37
Bingham Schoolhouse, Lowell street, land (21,017 feet) and building,	\$14,553 56	
Furniture	551 33	
	<hr/>	15,104 89
Burns Schoolhouse, Cherry street, land (16,080 feet) and building	\$14,662 40	
Furniture	587 12	
	<hr/>	15,249 52
<i>Amount carried forward</i>	\$645,972 82	

<i>Amount brought forward</i>			\$645,972 82
O. S. Knapp Schoolhouse, Concord square, land (24,517 feet) and building		\$31,851 81	
Furniture		1,123 08	
		<hr/>	32,974 89
Charles G. Pope Schoolhouse, Washington street, land (27,236 feet) and building		\$63,143 74	
Furniture		1,747 48	
		<hr/>	64,891 22
Jacob T. Glines Schoolhouse, Jaques street, land (28,800 feet) and building		\$46,226 13	
Furniture		981 57	
		<hr/>	47,207 70
City Farm, land (10 acres, 12,523 feet)			30,000 00
Cedar-street Schoolhouse		\$700 00	
Furniture		100 00	
		<hr/>	800 00
City stables and dwelling-houses			7,000 00
Equipments for highway repairs			7,750 00
Watering-carts and sheds			2,300 00
No. 1 Hose-house, land (4,312 feet) and building		\$2,300 00	
Furniture		400 00	
John E. Wool hose carriage and apparatus		2,000 00	
		<hr/>	4,700 00
No. 2 Hose-house, land (5,400 feet) and building		\$7,500 00	
Furniture		300 00	
Winter Hill hose carriage and apparatus		2,000 00	
		<hr/>	9,800 00
<i>Amount carried forward</i>			<hr/> \$853,396 63

<i>Amount brought forward</i>				\$853,396 63
No. 3 Hose-house, land (5,226 feet) and building				\$9,000 00
Furniture				300 00
George H. Foster hose carriage and apparatus				2,000 00
R. A. Vinal hook-and-ladder truck and apparatus				3,400 00
Prescott hook-and-ladder truck and apparatus				100 00
				<hr/> 14,800 00
No. 4 Hose-house, land (9,100 feet) and building				\$11,000 00
Furniture				400 00
George O. Brastow hose carriage and apparatus				2,000 00
Relief hose carriage				600 00
				<hr/> 14,000 00
Steam fire-engine and equipment				4,515 00
No. 5 Hose-house, land (39,456 feet) and building				\$16,113 68
Furniture and apparatus				2,630 94
				<hr/> 18,744 62
Fire-alarm telegraph				15,800 00
Police-station, land (15,232 feet) and building (Bow street)				\$40,000 00
Furniture				3,000 00
				<hr/> 43,000 00
Police stable				3,858 35
Prospect street, land (7,918 feet) and building				7,000 00
Public Park (cost \$212,993.20)				125,000 00
Joy street, land (2,960 feet)				500 00
Walnut street, land (10,980 feet)				1,000 00
Elm street, land (18,000 feet)				3,600 00
Holland street (5 acres, 6,806 feet)				12,000 00
Gravel-land in Waltham (about 35 acres)				15,000 00
Gravel-land in Wakefield (about 1½ acres)				5,000 00
				<hr/>
<i>Amount carried forward</i>				\$1,237,214 60

<i>Amount brought forward</i>	\$1,237,214 60
Gravel-land on North street	4,000 00
The Nathan Tufts Park (unfinished)	21,591 45
Edgerly Schoolhouse Improvement (unfinished)	11,217 50
Somerville water-works (cost \$572,048.52)	570,439 76
Oliver street, land (63,069 feet)	7,500 00
Whipple street, land, lots Nos. 30 and 31 (15,240 feet),	388 27
<hr/>	
Total value of public property	\$1,752,351 58

TABLE B.
FUNDED DEBT DECEMBER 31, 1892.
CITY LOAN BONDS.

Date.	Number of Bonds.	Rate per cent. of Interest.	When due.	Denomination.	Amount.
January 1, 1892.	1,224 to 1,233	4	Jan. 1, 1893.	\$1,000	\$10,000
July 1, 1885.	856 to 880	4	July 1, 1893.	1,000	25,000
October 1, 1884.	799 to 852	4	Oct. 1, 1893.	1,000	54,000
October 1, 1889.	929 to 933	4	Oct. 1, 1893.	1,000	5,000
October 1, 1890.	1,023 to 1,032	4	Oct. 1, 1893.	1,000	10,000
October 1, 1890.	1,111 to 1,114	4	Oct. 1, 1893.	1,000	4,000
October 1, 1891.	1,154 to 1,160	4	Oct. 1, 1893.	1,000	7,000
January 1, 1892.	1,234 to 1,243	4	Jan. 1, 1894.	1,000	10,000
July 1, 1888.	887 to 909	4	July 1, 1894.	1,000	23,000
October 1, 1889.	934 to 938	4	Oct. 1, 1894.	1,000	5,000
October 1, 1890.	1,033 to 1,042	4	Oct. 1, 1894.	1,000	10,000
October 1, 1890.	1,115 to 1,118	4	Oct. 1, 1894.	1,000	4,000
October 1, 1891.	1,161 to 1,167	4	Oct. 1, 1894.	1,000	7,000
January 1, 1892.	1,244 to 1,253	4	Jan. 1, 1895.	1,000	10,000
October 1, 1876.	190 to 194	5	Oct. 1, 1895.	1,000	25,000
October 1, 1876.	195 to 334	5	Oct. 1, 1895.	1,000	140,000
October 1, 1889.	939 to 943	4	Oct. 1, 1895.	1,000	5,000
October 1, 1890.	1,043 to 1,052	4	Oct. 1, 1895.	1,000	10,000
October 1, 1890.	1,119 to 1,122	4	Oct. 1, 1895.	1,000	4,000
October 1, 1891.	1,168 to 1,174	4	Oct. 1, 1895.	1,000	7,000
January 1, 1892.	1,254 to 1,263	4	Jan. 1, 1896.	1,000	10,000
October 1, 1889.	944 to 948	4	Oct. 1, 1896.	1,000	5,000
October 1, 1890.	1,053 to 1,062	4	Oct. 1, 1896.	1,000	10,000
October 1, 1890.	1,123 to 1,126	4	Oct. 1, 1896.	1,000	4,000
October 1, 1891.	1,175 to 1,181	4	Oct. 1, 1896.	1,000	7,000
January 1, 1892.	1,264 to 1,273	4	Jan. 1, 1897.	1,000	10,000
<i>Amount</i>	<i>carried forward</i>	. . .	. . . . .	. . . . .	\$421,000

TABLE B. — CITY LOAN BONDS. — *Concluded.*

Date.	Number of Bonds.	Rate per cent. of Interest.	When due.	Denomination.	Amount.
<i>Amount brought forward</i>		. . .	. . . . .	. . .	\$421,000
July 1, 1888.	910 to 913	4	July 1, 1897.	\$1,000	4,000
October 1, 1889.	949 to 969	4	Oct. 1, 1897.	1,000	21,000
October 1, 1890.	1,063 to 1,072	4	Oct. 1, 1897.	1,000	10,000
October 1, 1890.	1,127 to 1,130	4	Oct. 1, 1897.	1,000	4,000
October 1, 1891.	1,182 to 1,188	4	Oct. 1, 1897.	1,000	7,000
January 1, 1892.	1,274 to 1,283	4	Jan. 1, 1898.	1,000	10,000
October 1, 1889.	970 to 993	4	Oct. 1, 1898.	1,000	24,000
October 1, 1890.	1,073 to 1,082	4	Oct. 1, 1898.	1,000	10,000
October 1, 1890.	1,131 to 1,134	4	Oct. 1, 1898.	1,000	4,000
October 1, 1891.	1,189 to 1,195	4	Oct. 1, 1898.	1,000	7,000
January 1, 1892.	1,284 to 1,293	4	Jan. 1, 1899.	1,000	10,000
October 1, 1889.	994 to 1,002	4	Oct. 1, 1899.	1,000	9,000
October 1, 1890.	1,083 to 1,092	4	Oct. 1, 1899.	1,000	10,000
October 1, 1890.	1,135 to 1,138	4	Oct. 1, 1899.	1,000	4,000
October 1, 1891.	1,196 to 1,202	4	Oct. 1, 1899.	1,000	7,000
January 1, 1892.	1,294 to 1,303	4	Jan. 1, 1900.	1,000	10,000
October 1, 1890.	1,093 to 1,102	4	Oct. 1, 1900.	1,000	10,000
October 1, 1890.	1,139 to 1,142	4	Oct. 1, 1900.	1,000	4,000
October 1, 1891.	1,203 to 1,208	4	Oct. 1, 1900.	1,000	6,000
January 1, 1892.	1,304 to 1,313	4	Jan. 1, 1901.	1,000	10,000
October 1, 1890.	1,143 to 1,146	4	Oct. 1, 1901.	1,000	4,000
October 1, 1891.	1,209 to 1,211	4	Oct. 1, 1901.	1,000	3,000
January 1, 1892.	1,314 to 1,323	4	Jan. 1, 1902.	1,000	10,000
October 1, 1891.	1,212 to 1,214	4	Oct. 1, 1902.	1,000	3,000
October 1, 1891.	1,215 to 1,217	4	Oct. 1, 1903.	1,000	3,000
October 1, 1891.	1,218 to 1,220	4	Oct. 1, 1904.	1,000	3,000
October 1, 1891.	1,221 to 1,223	4	Oct. 1, 1905.	1,000	3,000
<i>Total</i>	<i>amount of City</i>	<i>Loan</i>	<i>Bonds . .</i>	. . .	\$631,000

TABLE B. — Continued.
SEWER LOAN BONDS.

Date.	Number of Bonds.	Rate per cent. of Interest.	When due.	Denomination.	Amount.
July 1, 1876.	1 to 7	5	July 1, 1896.	\$5,000	\$35,000

WATER LOAN BONDS.

Date.	Number of Bonds.	Rate per cent. of Interest.	When due.	Denomination.	Amount.
July 1, 1888.	282	4	July 1, 1893.	\$1,000	\$1,000
October 1, 1885.	89 to 99	5	Oct. 1, 1893.	1,000	11,000
October 1, 1889.	312 to 314	4	Oct. 1, 1893.	1,000	3,000
October 1, 1890.	397 to 398	4	Oct. 1, 1893.	1,000	2,000
July 1, 1888.	283	4	July 1, 1894.	1,000	1,000
October 1, 1881.	100 to 111	5	Oct. 1, 1894.	1,000	12,000
October 1, 1889.	315 to 317	4	Oct. 1, 1894.	1,000	3,000
October 1, 1890.	399 to 400	4	Oct. 1, 1894.	1,000	2,000
July 1, 1888.	284	4	July 1, 1895.	1,000	1,000
July 1, 1882.	112 to 124	5	July 1, 1895.	1,000	13,000
October 1, 1889.	318 to 320	4	Oct. 1, 1895.	1,000	3,000
October 1, 1890.	401 to 402	4	Oct. 1, 1895.	1,000	2,000
July 1, 1882.	125 to 136	5	July 1, 1896.	1,000	12,000
July 1, 1882.	137	5	July 1, 1896.	500	500
July 1, 1888.	285	4	July 1, 1896.	1,000	1,000
October 1, 1889.	321 to 323	4	Oct. 1, 1896.	1,000	3,000
October 1, 1890.	403 to 404	4	Oct. 1, 1896.	1,000	2,000
July 1, 1882.	138 to 151	5	July 1, 1897.	1,000	14,000
July 1, 1888.	286	4	July 1, 1897.	1,000	1,000
October 1, 1889.	324 to 326	4	Oct. 1, 1897.	1,000	3,000
October 1, 1890.	405 to 406	4	Oct. 1, 1897.	1,000	2,000
July 1, 1882.	152 to 166	5	July 1, 1898.	1,000	15,000
<i>Amount carried forward</i>		. . .	. . . . .	. . .	\$107,500

TABLE B. — WATER LOAN BONDS. — *Continued.*

Date.	Number of Bonds.	Rate per cent. of Interest.	When due.	Denomination.	Amount.
<i>Amount brought forward</i>		. . .	. . . . .	. . .	\$107,500
July 1, 1888.	287	4	July 1, 1898.	\$1,000	1,000
October 1, 1889.	327 to 329	4	Oct. 1, 1898.	1,000	3,000
October 1, 1890.	407 to 408	4	Oct. 1, 1898.	1,000	2,000
July 1, 1882.	167 to 181	5	July 1, 1899.	1,000	15,000
July 1, 1882.	182	5	July 1, 1899.	500	500
July 1, 1888.	288	4	July 1, 1899.	1,000	1,000
October 1, 1889.	330 to 342	4	Oct. 1, 1899.	1,000	13,000
October 1, 1890.	409 to 410	4	Oct. 1, 1899.	1,000	2,000
July 1, 1882.	183 to 194	5	July 1, 1900.	1,000	12,000
July 1, 1882.	195	5	July 1, 1900.	500	500
July 1, 1888.	289	4	July 1, 1900.	1,000	1,000
October 1, 1884.	200 to 202	4	Oct. 1, 1900.	1,000	3,000
October 1, 1889.	343 to 344	4	Oct. 1, 1900.	1,000	2,000
October 1, 1890.	416 to 417	4	Oct. 1, 1900.	1,000	2,000
October 1, 1892.	a448 to a458	4	Oct. 1, 1900.	1,000	11,000
July 1, 1888.	290	4	July 1, 1901.	1,000	1,000
October 1, 1884.	203 to 212	4	Oct. 1, 1901.	1,000	10,000
October 1, 1892.	a459 to 468	4	Oct. 1, 1901.	1,000	10,000
July 1, 1885.	214 to 219	4	July 1, 1901.	1,000	6,000
October 1, 1889.	345 to 346	4	Oct. 1, 1901.	1,000	2,000
October 1, 1890.	418 to 419	4	Oct. 1, 1901.	1,000	2,000
July 1, 1885.	220 to 226	4	July 1, 1902.	1,000	7,000
July 1, 1886.	229 to 238	4	July 1, 1902.	1,000	10,000
October 1, 1889.	347 to 348	4	Oct. 1, 1902.	1,000	2,000
October 1, 1890.	420 to 421	4	Oct. 1, 1902.	1,000	2,000
October 1, 1892.	469 to 475	4	Oct. 1, 1902.	1,000	7,000
July 1, 1886.	239 to 256	4	July 1, 1903.	1,000	18,000
<i>Amount carried forward</i>		. . .	. . . . .	. . .	\$253,500

TABLE B.—WATER LOAN BONDS.— *Continued.*

Date.	Number of Bonds.	Rate per cent. of Interest.	When Due.	Denomination.	Amount.
<i>Amount brought forward</i>		. .	. . . .	. . .	\$253,500
October 1, 1889.	349 to 350	4	Oct. 1, 1903.	\$1,000	2,000
October 1, 1890.	448 to 449	4	Oct. 1, 1903.	1,000	2,000
July 1, 1886.	257 to 266	4	July 1, 1904.	1,000	10,000
October 1, 1889.	351 to 352	4	Oct. 1, 1904.	1,000	2,000
October 1, 1890.	450 to 451	4	Oct. 1, 1904.	1,000	2,000
October 1, 1889.	353 to 355	4	Oct. 1, 1905.	1,000	3,000
October 1, 1890.	452 to 453	4	Oct. 1, 1905.	1,000	2,000
July 1, 1876.	30 to 31	5½	July 1, 1906.	1,000	10,000
October 1, 1889.	356 to 358	4	Oct. 1, 1906.	1,000	3,000
October 1, 1890.	454 to 455	4	Oct. 1, 1906.	1,000	2,000
July 1, 1886.	267 to 276	4	July 1, 1907.	1,000	10,000
July 1, 1888.	291	4	July 1, 1907.	1,000	1,000
October 1, 1889.	359 to 361	4	Oct. 1, 1907.	1,000	3,000
October 1, 1890.	456 to 457	4	Oct. 1, 1907.	1,000	2,000
July 1, 1888.	292	4	July 1, 1908.	1,000	1,000
October 1, 1889.	362 to 364	4	Oct. 1, 1908.	1,000	3,000
October 1, 1890.	458 to 459	4	Oct. 1, 1908.	1,000	2,000
July 1, 1888.	293	4	July 1, 1909.	1,000	1,000
October 1, 1889.	365 to 367	4	Oct. 1, 1909.	1,000	3,000
October 1, 1890.	423 to 424	4	Oct. 1, 1909.	1,000	2,000
July 1, 1888.	294	4	July 1, 1910.	1,000	1,000
October 1, 1889.	368 to 370	4	Oct. 1, 1910.	1,000	3,000
October 1, 1890.	426 to 427	4	Oct. 1, 1910.	1,000	2,000
July 1, 1888.	295	4	July 1, 1911.	1,000	1,000
October 1, 1889.	371 to 373	4	Oct. 1, 1911.	1,000	3,000
October 1, 1890.	428 to 429	4	Oct. 1, 1911.	1,000	2,000
July 1, 1888.	296	4	July 1, 1912.	1,000	1,000
<i>Amount carried forward</i>		. .	. . . .	. . .	\$332,500

TABLE B.—WATER LOAN BONDS.—*Concluded.*

Date.	Number of Bonds.	Rate per cent. of Interest.	When Due.	Denomi- nation.	Amount.
<i>Amount</i>	<i>brought forward</i>	. .	. . . . .	. . . .	\$332,500
October 1, 1889.	374 to 376	4	Oct. 1, 1912.	\$1,000	3,000
October 1, 1890.	430 to 431	4	Oct. 1, 1912.	1,000	2,000
July 1, 1888.	297	4	July 1, 1913.	1,000	1,000
October 1, 1889.	377 to 379	4	Oct. 1, 1913.	1,000	3,000
October 1, 1890.	432 to 433	4	Oct. 1, 1913.	1,000	2,000
July 1, 1888.	298	4	July 1, 1914.	1,000	1,000
October 1, 1889.	380 to 382	4	Oct. 1, 1914.	1,000	3,000
October 1, 1891.	434 to 435	4	Oct. 1, 1914.	1,000	2,000
July 1, 1888.	299	4	July 1, 1915.	1,000	1,000
October 1, 1889.	383 to 384	4	Oct. 1, 1915.	1,000	2,000
October 1, 1890.	436 to 437	4	Oct. 1, 1915.	1,000	2,000
July 1, 1888.	300	4	July 1, 1916.	1,000	1,000
October 1, 1889.	385 to 386	4	Oct. 1, 1916.	1,000	2,000
October 1, 1890.	438 to 439	4	Oct. 1, 1916.	1,000	2,000
July 1, 1888.	301	4	July 1, 1917.	1,000	1,000
October 1, 1889.	387 to 388.	4	Oct. 1, 1917.	1,000	2,000
October 1, 1890.	440 to 441	4	Oct. 1, 1917.	1,000	2,000
July 1, 1888.	302	4	July 1, 1918.	1,000	1,000
October 1, 1889.	389 to 390	4	Oct. 1, 1918.	1,000	2,000
October 1, 1890.	442 to 443	4	Oct. 1, 1918.	1,000	2,000
October 1, 1889.	391 to 392	4	Oct. 1, 1919.	1,000	2,000
October 1, 1890.	444 to 445	4	Oct. 1, 1919.	1,000	2,000
October 1, 1890.	446 to 447	4	Oct. 1, 1920.	1,000	2,000
<i>Total</i>	<i>amount of Water</i>	<i>Loan</i>	<i>Bonds . .</i>	<i>. . . .</i>	\$375,500

TABLE B. — Continued.
CITY LOAN PAVING BONDS.

Date.	Number of Bonds.	Rate per cent. of Interest.	When due.	Denomi- nation.	Amount.
October 1, 1892.	1 to 5	4	Oct. 1, 1893.	\$1,000	\$5,000
October 1, 1892.	6 to 10	4	Oct. 1, 1894.	1,000	5,000
October 1, 1892.	11 to 15	4	Oct. 1, 1895.	1,000	5,000
October 1, 1892.	16 to 20	4	Oct. 1, 1896.	1,000	5,000
October 1, 1892.	21 to 25	4	Oct. 1, 1897.	1,000	5,000
October 1, 1892.	26 to 30	4	Oct. 1, 1898.	1,000	5,000
October 1, 1892.	31 to 35	4	Oct. 1, 1899.	1,000	5,000
October 1, 1892.	36 to 40	4	Oct. 1, 1900.	1,000	5,000
October 1, 1892.	41 to 45	4	Oct. 1, 1901.	1,000	5,000
October 1, 1892.	46 to 50	4	Oct. 1, 1902.	1,000	5,000
October 1, 1892.	51 to 55	4	Oct. 1, 1903.	1,000	5,000
October 1, 1892.	56 to 60	4	Oct. 1, 1904.	1,000	5,000
October 1, 1892.	61 to 65	4	Oct. 1, 1905.	1,000	5,000
October 1, 1892.	66 to 70	4	Oct. 1, 1906.	1,000	5,000
October 1, 1892.	71 to 75	4	Oct. 1, 1907.	1,000	5,000
October 1, 1892.	76 to 80	4	Oct. 1, 1908.	1,000	5,000
October 1, 1892.	81 to 85	4	Oct. 1, 1909.	1,000	5,000
October 1, 1892.	86 to 90	4	Oct. 1, 1910.	1,000	5,000
October 1, 1892.	91 to 95	4	Oct. 1, 1911.	1,000	5,000
October 1, 1892.	96 to 100	4	Oct. 1, 1912.	1,000	5,000
<i>Total amount of Paving Bonds</i>			. . . . .	. . .	\$100,000

RECAPITULATION.

City Loan Bonds	\$631,000
Sewer Loan Bonds	35,000
Water Loan Bonds	375,500
City Loan Paving Bonds	100,000
Total amount of funded debt	\$1,141,500

TABLE C.

STATEMENT OF ACCOUNTS SHOWING APPROPRIATIONS, EXPENDITURES, ETC., TO DEC. 31, 1892.

APPROPRIATIONS.

CREDIT.		
Taxes, amount assessed		\$512,835 00
Property and debt balance		181,000 00
		<hr/>
		\$693,835 00
DEBIT.		
Fire Department	\$37,000 00	
Health Department	8,000 00	
Highways	55,000 00	
Highways, paving Union square and parts of Somerville and Webster avenues	100,000 00	
Indigent Soldiers and Sailors	500 00	
Interest	57,000 00	
Miscellaneous	5,000 00	
Nathan Tufts Park	25,000 00	
Police	24,000 00	
Police Station Incidentals	3,500 00	
Public Library	4,000 00	
Public Grounds	4,300 00	
Printing and Stationery	6,300 00	
Reduction of Funded Debt	60,000 00	
Renewals of Funded Debt	28,000 00	
Relief and Burial of Indigent Soldiers and Sailors	3,000 00	
Salaries	31,085 00	
School Teachers' Salaries	108,000 00	
School Contingent	13,000 00	
School Contingent, Janitors' Salaries	10,000 00	
School Fuel	7,150 00	
		<hr/>
<i>Amounts carried forward</i>	\$589,835 00	\$693,835 00

<i>Amounts brought forward .</i>	\$589,835 00	\$693,835 00
Schoolhouse Incidentals	10,000 00	
Schoolhouse, Edgerly addition	20,000 00	
Sewers	18,000 00	
Sidewalks	10,000 00	
Street Lights	27,000 00	
Support of Poor	14,000 00	
Watering Streets	5,000 00	
	<hr/>	\$693,835 00

BROADWAY PARKWAY.

CREDIT.

Overlay and Abatement, amount transferred	\$4,500 00
Highland Schoolhouse addition, amount transferred	23 41
Schoolhouse in Ward Three, amount transferred	773 87
Cash, received of West End Street	
Railway	\$247 95
Mike Finnon, pay roll account	4 00
	<hr/>
	251 95
	<hr/>
	\$5,549 23

DEBIT.

Cash, paid laborers	\$788 50
Highways account, laborers	250 40
Christopher Burke, teaming, etc.	2,337 08
Jeremiah McCarthy, edgestones,	1,053 41
Thomas Casey, loam	584 78
Jonathan Brown, loam	25 02
Heirs of Edwin Sawyer, loam	103 63
Jonathan Stone, loam	88 55
George McKenna, teaming	17 50
John R. Farnham, trees	49 00
Willard Ladd, trees	18 00
A. Parker, stone posts	90 00
Portland Stone Ware Co., pipe,	2 64
Ames Plow Co., wire	18 86
J. E. Herrick, cement	3 90
	<hr/>
<i>Amounts carried forward .</i>	\$5,431 17
	<hr/>
	\$5,549 23

<i>Amounts brought forward</i>	.	\$5,431 17	\$5,549 23
I. H. Brown & Co., lumber	.	8 37	
David W. Lewis, grate and bar,		6 00	
Parker & Wood, seed	.	16 00	
Bradley Fertilizer Co., fertilizer,		25 00	
Sewers account, catch-basin	.	58 53	
		<hr/>	
		\$5,545 17	
Excess and Deficiency, balance			
to credit of account	.	4 06	
		<hr/>	
			\$5,549 23

CASH.

CREDIT.

Broadway Parkway	.	.	.	.	\$5,545 17
County of Middlesex	.	.	.	.	30,657 03
Fire Department	.	.	.	.	40,991 94
Funded Debt	.	.	.	.	132,000 00
Health Department	.	.	.	.	11,816 76
Highways	.	.	.	.	58,863 29
Highways, paving Union square and parts of Somerville and Webster avenues	.	.	.	.	96,249 77
Indigent Soldiers and Sailors	.	.	.	.	1,174 00
Interest	.	.	.	.	42,974 26
Maverick National Bank	.	.	.	.	135,246 44
Miscellaneous	.	.	.	.	17,125 85
Nathan Tufts Park	.	.	.	.	21,761 95
Overlay and Abatement	.	.	.	.	140 00
Police	.	.	.	.	42,989 21
Police Station Incidentals	.	.	.	.	3,775 68
Printing and Stationery	.	.	.	.	6,853 46
Public Grounds	.	.	.	.	6,259 60
Public Library	.	.	.	.	5,800 93
Relief and Burial Indigent Soldiers and Sailors	.	.	.	.	4,029 92
Salaries	.	.	.	.	31,458 12
					<hr/>
<i>Amount carried forward</i>	.	.	.	.	\$695,713 38

<i>Amount brought forward</i> . . .	\$695,713 38	
School Teachers' Salaries . . .	108,058 81	
School Contingent . . .	13,196 81	
School Contingent, Janitors' Salaries . . .	9,794 92	
School Fuel . . .	7,147 68	
Schoolhouse Incidentals . . .	17,734 18	
Schoolhouse in Ward Two . . .	600 00	
Schoolhouse in Ward Two, Prospect Hill District . . .	260 88	
Schoolhouse, Edgerly addition . . .	11,217 50	
Semi-Centennial Celebration . . .	5,535 11	
Sewers . . .	24,237 15	
Sidewalks . . .	20,880 57	
State Aid . . .	6,804 50	
State of Massachusetts . . .	27,457 50	
State of Massachusetts, Metropolitan Sewer . . .	3,136 02	
Street Lights . . .	26,529 45	
Sundry Persons . . .	127 50	
Support of Poor . . .	17,015 30	
Temporary Loans . . .	463,000 00	
Watering Streets . . .	12,828 06	
Water Loan Interest . . .	15,415 00	
Water Maintenance . . .	30,689 87	
Water Services . . .	9,794 86	
Water-works Extension . . .	37,124 64	
Balance to debit in account 1893 . . .	39,653 03	
	<hr/>	\$1,603,952 72

DEBIT.

Balance from 1891 . . .	\$37,007 03
Broadway Parkway . . .	251 95
City of Boston, water rates . . .	77,640 91
Fire Department . . .	194 73
Funded Debt . . .	228,000 00
Health Department . . .	263 00

Amounts carried forward . . . \$343,357 62 \$1,603,952 72

<i>Amounts brought forward .</i>	\$343,357 62	\$1,603,952 72
Highways	4,199 70	
Highways, paving Union square and parts of Somerville and Webster avenues	351 86	
Interest	10,013 46	
Maverick National Bank	35,246 44	
Miscellaneous	3,826 85	
Nathan Tufts Park	170 50	
Overlay and Abatement	5 94	
Police	19,321 97	
Police Station Incidentals	430 00	
Printing and Stationery	8 25	
Public Grounds	567 12	
Public Library	1,462 01	
Reduction of Funded Debt	77,185 00	
Salaries	6 92	
School Contingent	65 00	
Schoolhouse Incidentals	2,477 07	
Sewers	656 54	
Sewer Assessments	11,715 43	
Sidewalks	617 54	
Sidewalk Assessments	8,233 47	
State Aid	33 50	
State of Massachusetts, Indigent Soldiers and Sailors	432 50	
State of Massachusetts, State Aid	5,581 50	
Support of Poor	3,099 90	
Taxes	598,754 36	
Temporary Loans	453,000 00	
Watering Streets	7,984 77	
Water Maintenance	1,414 08	
Water Services	377 45	
Water Service Assessments	11,094 50	
Water-works Extension	2,261 47	
	<hr/>	<hr/>
		\$1,603,952 72

CITY OF BOSTON, WATER RATES.

CREDIT.

Cash, received of City of Boston, return on water rates	\$77,640 91
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DEBIT.

Water Maintenance	\$20,000 00	
Water-works Extension	40,000 00	
Water Loan Interest	15,895 00	
Reduction of Funded Debt, water bonds	1,745 91	
	<u> </u>	<u>\$77,640 91</u>

CITY LOAN BONDS.

CREDIT.

Balance to debit in account 1893	\$53,000 00
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DEBIT.

Funded Debt, bonds not sold	<u>\$53,000 00</u>
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COUNTY OF MIDDLESEX.

CREDIT.

Taxes, amount assessed	\$30,657 03
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DEBIT.

Cash, paid county tax	<u>\$30,657 03</u>
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EXCESS AND DEFICIENCY.

CREDIT.

Broadway Parkway, credit balance of account	\$4 06	
Highways, credit balance of account ..	336 41	
Interest, credit balance of account .	11,604 20	
	<u> </u>	
<i>Amount carried forward . .</i>	<i>\$11,944 67</i>	

<i>Amount brought forward</i> . . .	\$11,944 67	
Police, credit balance of account . . .	332 76	
Police Station Incidentals, credit balance of account	154 32	
Public Grounds, credit balance of account	7 52	
School Contingent, Janitors' Salaries, credit balance of account . . .	205 08	
School Fuel, credit balance of account,	2 32	
Street Lights, credit balance of account,	470 55	
Support of Poor, credit balance of account	84 60	
Watering Streets, credit balance of account	356 71	
Overlay and Abatement, transferred	4,323 99	
	<hr/>	\$17,882 52
DEBIT.		
Fire Department, debit balance of account	\$3,797 21	
Health Department, debit balance of account	3,553 76	
Indigent Soldiers and Sailors, debit balance of account	87 00	
Miscellaneous, debit balance of account	4,599 00	
Printing and Stationery, debit balance of account	545 21	
Relief and Burial of Indigent Soldiers and Sailors, debit balance of account	942 42	
Salaries, debit balance of account	366 20	
School Teachers' Salaries, debit balance of account	58 81	
School Contingent, debit balance of account	131 81	
Schoolhouse Incidentals, debit balance of account	3,757 11	
Sidewalks, debit balance of account	43 99	
	<hr/>	<u>\$17,882 52</u>

FIRE DEPARTMENT, ENGINE HOUSE, EAST SOMERVILLE.

CREDIT.

Appropriations, Funded Debt account	\$6,500 00
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DEBIT.

Property and debt balance	\$6,500 00
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FIRE DEPARTMENT.

CREDIT.

Appropriations, amount assessed	\$37,000 00
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Cash, received of E. I. Braddock & Co.,	
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old zinc, copper, etc.	\$125 73
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Frank W. Leavitt, old hose carriage	15 00
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Lorenzo W. Dow, manure	54 00
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	194 73
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Excess and Deficiency, balance to debit of account	3,797 21
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	\$40,991 94
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DEBIT.

Cash, paid James R. Hopkins, chief engineer	\$1,400 00
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Nathaniel C. Barker, assistant engineer	500 00
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Two steamer engineers	2,280 00
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Two assistant engineers	2,000 00
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Nine drivers	9,000 00
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Benjamin W. Daley, substitute driver	32 03
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Frank L. Draper, substitute driver	114 16
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Richard F. Clarkson, substitute driver	127 24
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Oscar Sheltus, substitute driver,	188 78
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<i>Amounts carried forward</i>	\$15,642 21	\$40,991 94
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<i>Amounts brought forward</i>	\$15,642 21	\$40,991 94
Charles H. Bridges, substitute driver	97 21	
Edgar F. Shaw, substitute driver,	262 14	
Frank Hersey, substitute driver,	182 48	
Arthur Merrill, special service,	3 00	
Edward O. Webber, special service	3 00	
Edward Poor, special service	3 00	
Fred B. Clapp, special service	3 00	
Arthur C. Sellon, special service,	3 00	
Walter N. Milliman, special service	3 00	
Lorenzo H. Dale, special service,	3 00	
Henry J. Turner, special service,	2 50	
William G. Johnson, special service	3 00	
Bernard C. Phillips, special service	3 00	
Ira A. Mix, special service	3 00	
Frederick Di Beck, special service	3 00	
John Ford, special service	3 00	
Merrill N. Bent, special service,	3 00	
John A. Quinn, special service,	3 00	
James Singleton, special service,	3 00	
John A. Shannon, special service,	3 00	
Alfred R. Higgins, special service	2 50	
Thomas W. Joy, special service,	2 50	
James D. Perkins, Jr., special service	2 50	
Edwin H. Bright, special service,	7 50	
Steamer Company No. 1, callmen	1,242 00	
Steamer Company No. 4, callmen	1,202 00	
<i>Amounts carried forward</i>	\$18,693 54	\$40,991 94

<i>Amounts brought forward</i>	\$18,693 54	\$40,991 94
Hose Company No. 1, callmen .	1,022 00	
Hose Company No. 2, callmen .	1,092 00	
Hose Company No. 3, callmen .	1,022 00	
Hose Company No. 5, callmen .	992 00	
Hook and Ladder Co. No. 1, callmen	1,742 00	
Edward F. Backus, lineman .	981 25	
James R. Hopkins, disburse- ments	32 00	
R. W. Willey & Co., hay and grain	982 26	
Leavitt, Sanborn, & Co., hay and grain	424 89	
A. M. Prescott, hay and grain .	412 98	
Nathan Tufts & Sons, hay and grain	164 20	
Fulton O'Brion, hay and grain .	160 55	
E. B. Vreeland, hay and grain .	91 85	
A. J. Sawyer & Co., hay and grain,	47 62	
G. W. Ladd, hay and grain .	16 10	
C. W. Ingalls, horseshoeing .	97 75	
Seward Dodge, horseshoeing .	94 96	
Charles F. Scott, horseshoeing .	83 62	
Edward O'Brien, horseshoeing .	61 54	
Thomas F. Culliton, horseshoe- ing	46 90	
W. H. Richardson, horseshoeing,	46 40	
Charles Maguire, horseshoeing .	24 10	
Charles L. Underhill, black- smithing	10 05	
E. Teel & Co., hose wagon and repairing apparatus, etc. .	775 50	
Frank W. Leavitt, repairing ap- paratus, etc.	122 00	
Charles Waugh & Co., repairing apparatus, etc.	205 77	
<i>Amounts carried forward</i> .	\$29,445 83	\$40,991 94

<i>Amounts brought forward</i>	\$29,445 83	\$40,991 94
Jacob Woodbury, repairing apparatus, etc.	10 85	
H. D. Brown, repairing apparatus, etc.	2 75	
D. J. Bennett, harness work	80 95	
F. Ivers & Son, harness work, etc.	101 80	
E. Spalding, harness work	16 25	
Hill & Langtry, harness work	44 71	
Dodge, Haley, & Co., harness work	2 70	
Charles E. Berry, harness work, etc.	62 50	
J. B. Dupont, hardware	50 90	
W. E. Plumer, hardware	68 54	
Richard Dowd, hardware	44 03	
W. I. Heald, hardware	18 49	
Whitney & Snow, hardware	37 72	
Howe & Flint, hardware	18 02	
David W. Crocker, hardware	11 80	
J. A. Durell, hardware	3 79	
F. C. Fuller & Son, hardware	9 63	
I. H. Brown, carpentering	50 88	
G. D. B. Robinson, carpentering	347 97	
Elijah Walker, carpentering	146 79	
Thomas Gordan, carpentering	31 56	
Arthur W. Berry, carpentering	20 60	
McIntire & Holland, carpentering	18 67	
John R. Thompson, carpentering,	7 48	
N. C. Barker, carpentering	11 25	
W. S. Walker, carpentering	2 50	
James F. Davlin, plumbing	47 33	
Young & Maynard, plumbing	39 37	
H. W. Covell, plumbing	17 87	
<i>Amounts carried forward</i>	\$30,773 53	\$40,991 94

<i>Amounts brought forward</i>	\$30,773 53	\$40,991 94
C. W. Cahalan, plumbing	75	
W. J. Logan, painting	100 65	
J. H. Hollis, painting	46 50	
J. Q. Twombly, painting	15 60	
J. F. Burton, painting	16 30	
A. Fisher, painting	2 00	
John H. Stevens, lumber	9 05	
Star Brass Manfg. Co., repairing gauge	9 40	
C. W. Adams, repairs	15 00	
Duncan C. Greene, repairs	40	
Eastern Electrical Supply Co., supplies	34 83	
N. E. Gamewell Co., electrical supplies	642 21	
Electrical Safety Co., electrical supplies	48 18	
Charles Bly, electrical supplies	31 33	
Cochran Chemical Co., electrical supplies	4 75	
John L. Crafts, repairs	35 35	
James Bartley, supplies	17 41	
H. W. Burgess, supplies	9 63	
Boston Belting Co., hose	900 00	
Boston Woven Hose & Rubber Co., hose and repairs	458 00	
Revere Rubber Co., hose	146 35	
Harry Hunt, repairing hose	12 50	
Cornelius Callahan Co., hose, etc.	402 95	
J. A. & W. Bird & Co., vitriol	68 25	
Pettengill, Andrews Co., vitriol	55 04	
A. S. Jackson, ladders, etc.	233 18	
McDormand, Warner, & Co., ladders	22 50	
Fuller, Dana, & Fitz, wire	55 30	
<i>Amounts carried forward</i>	\$34,166 94	\$40,991 94

<i>Amounts brought forward</i>	\$34,166 94	\$40,991 94
Ira C. Hersey, assignee, bell spring	1 21	
Chapman Valve Manfg Co., tools,	4 50	
Horace E. Walker Manfg. Co., pipe	8 85	
American Fire Engine Co., gong,	18 10	
H. W. Johns Manfg. Co., paint,	13 76	
Boston Nickel Plating Co., ex- tinguishers	4 00	
H. C. Howes, buckles	6 00	
James Forgie & Son, brushes	4 00	
Lappen Bros., sponges	5 35	
Charles W. Badger, sponges	1 22	
Thomas Hollis, soap, etc.	59 65	
John G. Lesure, drugs	12 00	
George H. Cowdin, drugs	6 05	
E. F. Chaffee, drugs	75	
Charles R. Simpson, veterinary services	24 50	
H. B. Welles, veterinary services,	34 00	
John P. Squire & Co., oil	37 70	
Charles L. Davenport, salt	3 00	
Jackson Caldwell & Co., chairs,	45 75	
George F. Roach, wardrobe	22 50	
Jordan, Marsh, & Co., bedding	43 70	
S. L. Chandler, bedding	25 60	
Horatio Wellington & Co., fuel,	544 82	
B. F. Wild & Co., fuel	177 50	
George M. Winslow & Co., fuel,	143 10	
J. J. Underhill, fuel	4 75	
James M. Burckes & Son, mason work	156 25	
Scoville Manfg. Co., buttons	9 61	
J. E. Marshall, insignia	43 25	
A. W. Mitchell Manfg. Co., badges	58 21	
<i>Amounts carried forward</i>	\$35,686 62	\$40,991 94

<i>Amounts brought forward</i>	\$35,686 62	\$40,991 94
Silsby Manfg. Co., freight	41 25	
New England Telephone and Telegraph Co., rentals and tolls	129 30	
Cambridge Gas Light Co., gas,	495 84	
Charlestown Gas Co., gas	161 11	
City of Boston, water for hydrants	3,220 00	
City of Boston, water for houses,	130 00	
Loring & Phipps, plans	120 00	
H. D. & W. S. Durgin, ice	37 50	
Boston Ice Co., ice	12 00	
Union Glass Co., jars	4 35	
Samuel Barker, shades	8 25	
Thomas Groom & Co., stationery,	12 75	
Citizen Publishing Co., printing,	4 00	
Somerville Electric Light Co., labor	4 00	
Ray's Laundry, washing	74 09	
Mrs. Calvert, washing	23 13	
Samuel H. Stevens, washing	13 88	
A. Sellon, washing	10 00	
Irving C. Jackson, washing	6 37	
Fred A. Blackburn, labor	131 00	
George L. Blackbird, labor,	59 00	
Samuel E. Coombs, labor	74 00	
William E. Peirce, labor	38 50	
Joseph A. Sanders, labor	2 00	
James I. King, labor	2 00	
Albert F. Jones, labor	2 00	
Danforth S. Steele, labor	2 00	
Jairus Mann, travelling expenses, special committee	30 41	
J. H. Thompson, carriage hire,	17 50	
Howard Lowell, carriage hire,	5 00	
S. J. Wood, filing saws, etc.,	3 55	
<i>Amounts carried forward</i>	\$40,561 40	\$40,991 94

<i>Amounts brought forward</i>	\$40,561 40	\$40,991 94
T. E. Edwards, repairing lock,	1 00	
W. A. Greenough, directory	2 00	
Boston City Hospital, medical attendance	38 00	
Charles E. Farnham, expressing,	25 85	
E. R. Perham, expressing	23 20	
Barker & Tibbetts, expressing,	1 30	
Gilman's Express, expressing	15	
Thorpe's Express, expressing	2 20	
Glines & Co., expressing	80	
George Morton, expressing	3 00	
F. D. Woodbridge, expressing	2 88	
Charles A. Holmes, repairing pipe	4 25	
William A. Folsom & Co., steam fitting	69 64	
Boston Bolt Co., iron work	9 60	
Parker & Wood, tools	2 50	
John S. Cleary, conductor	4 14	
F. H. Flagg, wheelwright work,	11 75	
Thomas Dowd, plastering	11 75	
W. W. White & Co., maps	11 70	
Somerville Journal Co., printing,	37 00	
E. W. Ring, washing	3 38	
J. P. Routh, drugs	50	
William Eccles & Son, cleaning carpets	2 60	
William F. Lowe, washing powder	22 60	
J. A. Litchfield, soap	4 50	
James C. Fitzgerald, use of team,	3 00	
Arthur T. Hatch, premium of insurance	75 00	
Smith & Robertson, premium of insurance	56 25	
	<hr/>	<hr/> <hr/>
		\$40,991 94

FUNDED DEBT.

CREDIT.

Balance from 1892		\$1,045,500 00
Cash, received from sale of City Loan		
Paving Bonds Nos. 1 to 100,	\$100,000 00	
Water Loan Bonds Nos. 448 to		
475	28,000 00	
City Loan Bonds, bonds not		
sold	53,000 00	
City Loan Bonds Nos. 1,224 to		
1,323	100,000 00	
		<u>281,000 00</u>
		<u>\$1,326,500 00</u>

DEBIT.

Cash, paid sundry persons :—

Water Loan Bonds Nos. 66 to	
76	\$11,000 00
Water Loan Bonds Nos. 78 to	
88	11,000 00
Water Loan Bond No. 281 .	1,000 00
Water Loan Bonds Nos. 309 to	
311	3,000 00
Water Loan Bonds Nos. 395 to	
396	2,000 00
City Loan Bonds Nos. 721 to	
798	78,000 00
City Loan Bonds Nos. 924 to	
928	5,000 00
City Loan Bonds Nos. 1,013 to	
1,022	10,000 00
City Loan Bonds No. 1,107 to	
1,110	4,000 00
City Loan Bonds Nos. 1,147 to	
1,153	7,000 00
	<u>\$132,000 00</u>
Balance to debit in account 1893,	1,194,500 00

\$1,326,500 00

HEALTH DEPARTMENT.

CREDIT.

Appropriations, amount assessed		\$8,000 00
Cash, received of W. P. Mitchell, permits to keep swine and goats and collect grease	\$213 00	
Martin Gill, rent of land	50 00	
Excess and Deficiency, balance to debit of account	3,553 76	
		<u>3,816 76</u>
		\$11,816 76

DEBIT.

Cash, paid Caleb A. Page, salary as inspector	\$1,100 00	
Disbursements	36 05	
Henry Gray, collecting offal	1,000 10	
Martin Gill, collecting offal	3,248 98	
Jeremiah McCarthy, collecting ashes	2,249 50	
John F. Elkins, collecting ashes, A. M. Prescott, collecting ashes and offal	34 50	
Henry Gray, wagons and shed, Christopher Burke, wagon	550 00	
T. M. Drown, professional services	65 00	
	500 00	
W. French Smith, chemical analysis	8 00	
Thomas N. Hart, rent of P. O. box	4 00	
A. M. Dennett, nursing	15 00	
H. S. Pond, rent of land	50 00	
N. C. Barker, use of team	1 00	
Brown & Smith, carriage hire	2 50	
L. H. Brown, carriage hire	29 50	
		<u></u>
<i>Amounts carried forward</i>	\$11,044 13	\$11,816 76

<i>Amounts brought forward</i>	\$11,044 13	\$11,816 76
William J. Blaisdell, painting wagons	72 00	
Seward Dodge, repairing wagons,	85 17	
L. A. Wright, repairing wagons,	3 60	
Howe & Flint, hardware . . .	3 30	
Whitney & Snow, hardware . .	4 45	
The Heliotype Printing Co., maps	37 50	
Somerville Journal Co., adver- tising	89 55	
Citizen Publishing Co., adver- tising	34 25	
Thomas Groom & Co., stationery,	113 00	
William T. Sedgwick, writing . .	2 25	
Edith Johnson, writing	1 50	
J. F. Wellington, disbursements,	2 50	
Hopkinson & Marden, buckets, etc.	4 50	
N. E. Vaccine Co., virus	14 99	
G. H. Cowdin, peppermint tubes,	7 14	
West & Jenny, sulphur	8 13	
Charles H. Crane, sulphur . . .	1 40	
John Welch, compensation for damages	5 00	
C. A. Southwick, labor	64 25	
J. D. Perkins, labor	2 50	
Thomas M. McFarland, labor . .	1 00	
John O'Brien, labor	4 00	
William F. Walker, labor	56 25	
Daniel Merrill, labor	21 00	
Sundry persons, burying ani- mals	102 50	
Charles E. Farnham, expressing,	90	
Laborers, pay roll	30 00	

\$11,816 76

HIGHWAYS.

CREDIT.

Appropriations, amount assessed		\$55,000 00
Cash, received of H. W. P. Colson, side-		
walk	\$127 63	
John H. Stevens, sidewalk	36 92	
Ceylon Hoyt, sidewalk	47 20	
Charles F. Swan, sidewalk	21 07	
David A. Gregg, sidewalk	48 41	
Hiram R. Mills, sidewalk	24 60	
Jonathan Stone, sidewalk	48 51	
Edward S. Sparrow, sidewalk	96 30	
Ormand H. Fuller, sidewalk	33 58	
Charles H. Lockhart, sidewalk	44 21	
A. W. Follett, sidewalk	77 14	
Annie Elston, sidewalk	21 07	
James A. Strout, sidewalk	21 07	
Matthew Carley, sidewalk	19 57	
Edward B. Morgan, sidewalk	104 12	
Augusta M. Stilphen, sidewalk	15 87	
J. Frank Wellington, sidewalk	12 00	
Mary T. Graham, sidewalk	45 15	
Marilla J. Butler, sidewalk	68 00	
Henry Donaghey, sidewalk	24 00	
George H. Derby, driveway	30 50	
William M. Hanson, driveway	11 53	
Daniel J. Buckley, driveway	7 38	
George E. Newcomb, driveway	4 25	
William J. McLean, driveway	2 00	
S. Armstrong & Co., driveway	42 06	
Kerr Chemical Co., driveway	25 05	
Father O'Brien, driveway	24 88	
Thomas Ormand, rent	72 00	
Arthur Murley, rent	96 00	
John P. Squire & Co., labor	55 23	
<i>Amounts carried forward</i>	<i>\$1,307 30</i>	<i>\$55,000 00</i>

<i>Amounts brought forward</i>	\$1,307 30	\$55,000 00
N. E. Telephone & Telegraph Co., labor	6 75	
Thomas H. Eames, old iron	2 50	
North Packing & Provision Co., use of road roller	18 00	
A. J. Herrick, horse	50 00	
Christopher Burke, horses	100 00	
Welch & Hall, horses	145 00	
Broadway Parkway account, labor and materials	250 40	
Sidewalks account, use of teams, labor, and materials	2,045 15	
Watering Streets account, paving	218 50	
Schoolhouse Incidentals account, labor and teaming	56 10	
	<hr/>	4,199 70
		<hr/>
		\$59,199 70

DEBIT.

Cash, paid laborers	\$29,762 90	
Thomas H. Eames, salary as superintendent	1,600 00	
Thomas H. Eames, board of horses	418 31	
R. W. Willey & Co., hay and grain	1,751 43	
G. W. Ladd, hay and grain	1,905 64	
Fitch & Ladd, hay and grain	525 56	
Fulton O'Brien, hay and grain	314 88	
A. Clement, horseshoeing	212 74	
Edward O'Brien, horseshoeing	213 40	
Seward Dodge, horseshoeing	167 72	
Charles S. Scott, horseshoeing	144 02	
G. W. Ingalls, horseshoeing	4 08	
J. B. Ruffer, horseshoeing	8 20	
	<hr/>	
<i>Amounts carried forward</i>	\$37,028 88	\$59,199 70

<i>Amounts brought forward</i>	\$37,028 88	\$59,199 70
John Kellogg, horseshoeing	8 23	
F. Dooris, blacksmithing	364 93	
Charles L. Underhill, blacksmithing	45 20	
David W. Crocker, repairing carts	251 75	
F. H. Flagg, repairing carts	19 05	
Miller & Shaw, repairing roller,	58 19	
George Tyler & Co., repairing roller	39 00	
William Campbell & Co., repairing roller	8 40	
D. J. Bennett, harness work	445 50	
E. Spalding, harness work	32 00	
T. L. Barrican, harness work	15 30	
W. H. Bustin & Son, harness work	7 00	
L. Barrican, harness work	1 75	
Hill & Langtry, harness work	72 00	
Whitney & Snow, hardware	262 21	
W. I. Heald, hardware	34 03	
J. A. Durell, hardware	6 90	
F. C. Fuller & Son, hardware	25 64	
Howe & Flint, hardware	5 75	
W. L. Snow, hardware	20	
Dupont & Côté, hardware	25	
Perrin, Seamans, & Co., hardware	118 46	
C. W. H. Moulton & Co., hardware	12 90	
Wetherell Brothers, hardware	10 20	
Waldo Brothers, hardware	14 50	
L. A. Wright, repairing tools	44 60	
John Fuller, repairing tools	8 75	
Jonathan Stone, repairing tools,	4 30	
F. J. Wood, repairing tools	75	
<i>Amounts carried forward</i>	\$38,946 62	\$59,199 70

<i>Amounts brought forward</i>	\$38,946 62	\$59,199 70
Sherburne & Co., waste	64 81	
Jeremiah McCarthy, stone	2,956 45	
Massachusetts Broken Stone Co., stone	2,361 82	
Dennis Shea, stone	1,022 35	
Frank W. Mead, stone	1,263 90	
James Hughes, stone	393 60	
Christopher Burke, stone	518 98	
West End Street Railway Co.,	439 02	
N. E. Fitz & Co., wharfage	161 20	
W. A. Sanborn, bricks	216 80	
John Thresher, bricks	502 70	
Christopher Burke, sand	205 40	
A. Allen, sand	11 25	
H. Parker, circles	98 00	
J. F. Elkins, teaming	402 50	
Christopher Burke, teaming	262 50	
T. F. Crimmings, teaming	352 50	
George McKenna, teaming	586 50	
Frank Buttimer, teaming	247 50	
Martin Gill, teaming	320 00	
Henry Gray, teaming	87 50	
John Ducey, teaming	52 50	
Owen Cunningham, teaming	37 50	
William Cunningham, teaming	15 00	
Thomas Allen, teaming	57 50	
George H. Sampson, powder	136 45	
Horatio Wellington & Co., fuel,	621 55	
J. E. Herrick, lime	167 30	
Walter Bates, concreting	10 71	
H. W. Johns Man'f'g Co., paint,	63 13	
George W. Morrill, painting, etc.,	97 06	
David Young, repairing roof	5 96	
L. C. Seavey, repairing roof	3 59	
W. A. Snow & Co., fence	115 38	
W. C. Smith, Agent, springs	36 00	
<i>Amounts carried forward</i>	\$52,841 53	\$59,199 70

<i>Amounts brought forward</i>	\$52,841 53	\$59,199 70
Boston Belting Co., belting	5 25	
Frederick A. Chandler, carpentering	162 08	
James F. Davlin, plumbing	424 98	
S. W. Fuller, lumber	148 44	
John F. Ayer & Co., lumber	12 02	
F. C. Ayer, Agent, lumber	90 53	
William H. Wood & Co., lumber,	15 00	
Ames Plow Co., drag	6 32	
Abbot Downing Co., street sweeper	35 00	
Isburgh & Co., buggy	140 00	
J. L. & H. K. Potter, watering cart	400 00	
Welch & Hall, horses	1,575 00	
P. H. Dardis, horses	500 00	
A. J. Herrick, veterinary services,	300 75	
Thomas Hollis, drugs	6 00	
Hosmer, Robinson, & Co., grain,	87 82	
Samuel Walker Oil Co., oil	65 37	
Adams & Harrington, oil	57 20	
Somerville Journal Co., printing,	67 25	
Citizen Publishing Co., printing,	40 50	
McDonnell Brothers, printing	42 30	
Charles C. Stearns & Son, street signs	28 35	
John Stutson, street signs	17 85	
Heirs of Mark Fiske, filling	62 00	
Jeremiah McCarthy, teaming	107 50	
N. E. Telephone & Telegraph Co., rentals and tolls	74 20	
L. H. Brown, carriage hire	6 00	
Horatio Gore & Co., labor	29 26	
Town of Medford, half cost of maintaining Middlesex-avenue bridge	604 29	
<i>Amounts carried forward</i>	\$57,952 79	\$59,199 70

<i>Amounts brought forward</i>	\$57,952 79	\$59,199 70
City of Waltham, taxes	131 75	
Town of Wakefield, taxes	32 38	
City of Boston, water	113 60	
Gilman's Express, expressing	4 15	
E. R. Perham, expressing	5 25	
Munroe's Express, expressing	1 41	
School Contingent account, rental of telephone	3 00	
Sidewalks account, labor, etc.,	406 02	
Highways, Paving Union Square account, labor	75 58	
Sidewalk Assessments account, sidewalks	78 86	
Thomas Groom & Co., stationery,	58 50	
	<hr/>	
	\$58,863 29	
Excess and Deficiency, balance to credit of account	336 41	
	<hr/>	
		<u>\$59,199 70</u>

HIGHWAYS, PAVING UNION SQUARE AND PARTS OF SOMERVILLE AND WEBSTER AVENUES.

CREDIT.

Appropriations, amount appropriated by borrowing on funded debt account	\$100,000 00
Cash, received of Jeremiah McCarthy, recutting flagging	\$74 09
Sidewalks account, edgestones	230 89
Highways account, labor	46 88
	<hr/>
	351 86

DEBIT.

Cash, paid laborers	\$1,513 88	\$100,351 86
Rockport Granite Co., paving blocks	56,115 50	
Horatio Gore & Co., contract work	18,965 38	
	<hr/>	
<i>Amounts carried forward</i>	\$76,594 76	\$100,351 86

<i>Amounts brought forward</i>	\$76,594 76	\$100,351 86
William H. Gore & Co., contract work	13,555 74	
Jeremiah McCarthy, edgestones,	3,823 64	
M. W. Sands, bricks	661 05	
N. M. Cofran & Co., bricks	80 00	
A. Parker, circles	26 04	
Sidewalk account, circle	11 52	
Sewers account, labor	10 44	
Whitney & Snow, hardware	12 00	
E. D. Sawyer & Co., lumber	5 51	
A. M. Prescott, teaming	77 50	
Somerville Electric Light Co., moving poles	9 80	
Somerville Journal Co., advertising and printing	96 05	
Boston Herald Co., advertising,	21 00	
Globe Newspaper Co., advertising	47 60	
West End Street Railway Co., wharfage	1,200 40	
Horace L. Eaton, disbursements,	7 75	
T. Edward Ames, disbursements,	8 97	
	<hr/>	
	\$96,249 77	
Balance to credit in account 1893	4,102 09	
	<hr/>	
		<u>\$100,351 86</u>

INDIGENT SOLDIERS AND SAILORS.

CREDIT.

Appropriations, amount assessed	\$500 00
State of Massachusetts, indigent soldiers and sailors, one-half of amount paid in 1892	587 00
Excess and Deficiency, balance to debit of account,	87 00
	<hr/>
	\$1,174 00

DEBIT.

Cash, paid sundry persons	<u>\$1,174 00</u>
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INTEREST.

CREDIT.

Appropriations, amount assessed		\$57,000 00
Cash, received on deposits in banks	\$682 78	
N. W. Harris & Co., premium on bonds	1,612 80	
Blake Brothers & Co., premium on bonds	75 20	
Brewster, Cobb, & Estabrook, premium on bonds	20 00	
Sundry persons, on taxes and assessments.	7,622 68	
	<hr/>	10,013 46
		<hr/>
		\$67,013 46

DEBIT.

Cash, paid on funded debt:—

\$570,000 one year at 4 per cent.,	\$22,800 00
\$200,000 one year at 5 per cent.,	10,000 00
	<hr/>
	\$32,800 00
Less coupons unpaid	100 00
	<hr/>
	\$32,700 00
Sundry persons, coupons unpaid,	100 00
	<hr/>
	\$32,800 00
On temporary loans:—	
Somerville Hospital, on note of \$13,000 nine months eight days at 4½ per cent.	\$451 75
Nellie A. Hutchins, guardian, on note of \$10,000 eleven months eighteen days at 4½ per cent.,	435 00
Nellie A. Hutchins, guardian, on note of \$15,000 eleven months fourteen days at 4½ per cent.,	645 00
	<hr/>
<i>Amounts carried forward</i>	\$1,531 75

\$67,013 46

<i>Amounts brought forward</i>	\$1,531 75	\$67,013 46
Nellie A. Hutchins, guardian, on note of \$30,000 four months at 4½ per cent.	450 00	
Commonwealth of Massachusetts, on note of \$100,000 four months seven days at 4½ per cent.	1,587 50	
Brewster, Cobb, & Estabrook, on note of \$20,000 four months at 4½ per cent.	300 00	
Commonwealth of Massachusetts, on note of \$50,000 six months at 4½ per cent.	1,125 00	
Blake Brothers & Co., on note of \$50,000 seven months at 3½ per cent.	1,020 83	
Blake Brothers & Co., on note of \$50,000 seven months at 3½ per cent.	1,020 84	
Blake Brothers & Co., on note of \$25,000 seven months at 3½ per cent.	510 41	
Blake Brothers & Co., on note of \$25,000 seven months at 3½ per cent.	510 42	
Blake Brothers & Co., on note of \$20,000 seven months at 3½ per cent.	408 33	
Blake Brothers & Co., on note of \$55,000 seven months at 3½ per cent.	1,122 92	
National Security Bank, overdrafts	521 26	
	<hr/>	
	\$10,109 26	
<i>Amount carried forward</i>		<hr/> \$67,013 46

<i>Amount brought forward</i>		\$67,013 46
On funded debt	\$32,800 00	
On temporary loans	10,109 26	
	<hr/>	
	\$42,909 26	
Semi-Centennial Celebration, amount transferred	5,700 00	
Miscellaneous, amount trans- ferred	3,700 00	
Public Grounds, amount trans- ferred	1,400 00	
Schoolhouse Incidentals, amount transferred	1,500 00	
Watering Streets, amount trans- ferred	200 00	
	<hr/>	
	\$55,409 26	
Excess and Deficiency, balance to credit of account	11,604 20	
	<hr/>	
		<u>\$67,013 46</u>

MAVERICK NATIONAL BANK.

CREDIT.

Property and Debt Balance, amount of loan on funded debt account	\$100,000 00
Cash, received dividends	35,246 44
	<hr/>
	\$135,246 44

DEBIT.

Cash, amount on deposit	\$135,246 44
	<hr/>

MISCELLANEOUS.

CREDIT.

Appropriations, amount assessed	\$5,000 00
Interest, amount transferred	3,700 00
	<hr/>
<i>Amount carried forward</i>	\$8,700 00

<i>Amount brought forward</i>		\$8,700 00
Cash, received of sundry persons, costs		
on taxes and assessments	\$2,343 25	
Sundry persons, liquor licenses	22 00	
Sundry persons, licenses to ped-		
dle	50 00	
Thomas Cunningham, milk in-		
spector's fees	149 50	
Fulton O'Brion, public weigher's		
fees	4 70	
Somerville Light Infantry, use		
of rifle range	25 00	
Maverick National Bank, check		
No. 5,035 lost	32 00	
George I. Vincent, city clerk : —		
Recording mortgages, \$398 75		
Marriage certificates, 265 50 .		
Licensing dogs	266 40	
Junk licenses	90 00	
Liquor licenses	22 00	
Auctioneers' licenses, 32 00		
Amusements	23 00	
Fire-works	64 00	
Billiards and pool	22 00	
Intelligence offices	10 00	
Naturalization fees	1 50	
Copy of records	5 25	
	<u>1,200 40</u>	
		3,826 85
Excess and Deficiency, balance to debit of		
account		4,599 00
		<u>\$17,125 85</u>

DEBIT.

Cash, paid F. A. Chandler, carpenter-		
ing	\$259 47	
J. H. Keenan, carpentering	123 80	
Fuller & Mathews, carpentering,	79 09	
	<u>\$462 36</u>	
<i>Amounts carried forward</i>		\$17,125 85

<i>Amounts brought forward</i>	\$462 36	\$17,125 85
Gillis Brothers, carpentering	74 70	
Whitney & Snow, hardware	58 27	
Howe & Flint, hardware	41 42	
J. A. Durell, hardware	15 39	
Enoch Robinson, hardware	2 75	
W. E. Plumer, hardware	3 11	
F. C. Fuller & Son, hardware	60	
C. W. Cahalan, plumbing	12 18	
Young and Maynard, plumbing	8 60	
James F. Davlin, plumbing	3 25	
J. Q. Twombly, painting	44 16	
W. M. McCrillis, painting	23 50	
C. H. Tufts, painting	9 21	
Wallburg & Woehrn, painting	10 96	
Robert Duddy, horsekeeping	342 50	
F. J. Stanley, horsekeeping	405 00	
Horace L. Eaton, horsekeeping,	65 00	
Charles F. Scott, horseshoeing	32 50	
Seward Dodge, horseshoeing	12 30	
Edward O'Brien, horseshoeing	4 00	
Charles L. Underhill, black-		
smithing	9 95	
F. Dooris, blacksmithing	3 00	
L. A. Wright, blacksmithing	40	
Jacob Woodbury, blacksmithing,	2 50	
E. Spalding, harness work	10 45	
Joseph A. Pearson, harness		
work	43 45	
J. A. McKine, harness work	90	
Charles A. Blethen, harness		
work	5 10	
Hill & Langtry, harness work	1 00	
Jackson Caldwell & Co., furni-		
ture	18 75	
Kilborn Whitman & Co., furni-		
ture	12 00	
<i>Amounts carried forward</i>	\$1,739 26	\$17,125 85

<i>Amounts brought forward</i> .	\$1,739 26	\$17,125 85
Wemyss Brothers & Co., furni- ture	79 88	
Derby & Kilmer Desk Co., furniture	97 25	
Jordan, Marsh, & Co., carpets .	225 12	
Sprague & Hathaway Co., glass, Hollander, Bradshaw, & Folsom, book stands	17 25	
	3 95	
Thomas O'Callaghan & Co., mats	10 00	
H. A. Click, repairing furniture, T. A. Lewers, repairing furni- ture	2 00	
	1 25	
William Eccles, repairing furni- ture	50	
E. O. Arnold, cleaning carpets .	11 45	
Union Glass Co., globes . . .	3 00	
L. C. Field, brushes	4 50	
William B. Plympton, polish .	1 10	
Kendall & Slade, lamps . . .	7 25	
William H. Poole, gas fitting .	41 41	
Ingalls & Kendrick, steam fit- ting	15 60	
Tobias & Wall, tool bag . . .	7 00	
Charles L. Bly, electrical sup- plies	15 48	
Bigelow & Dowse, engineers' sup- plies	16 38	
Frost & Adams, engineers' sup- plies	61 63	
F. E. Whitney, engineers' sup- plies	19 75	
R. W. Karnan, supplies . . .	3 12	
M. L. Vinal, supplies	3 60	
James Bartley, supplies . . .	6 45	
J. H. Brooks, supplies	4 75	
<i>Amounts carried forward</i> . .	<hr/> \$2,398 93	<hr/> \$17,125 85

<i>Amounts brought forward</i>	\$2,398 93	\$17,125 85.
J. A. Chabot, repairing safe lock,	1 00	
Ira G. Hersey, ballot boxes	55 88	
W. T. Butler, repairing ballot boxes	4 22	
Pulsion Telephone Supply Co., horse	225 00	
R. Tyner & Co., repairing buggy,	26 15	
D. P. Bucknam, mason work	2 25	
I. H. Brown & Co., lumber	23 80	
S. W. Fuller, lumber	7 34	
City of Boston, water	42 19	
Cambridge Gas Light Co., gas	61 60	
Somerville Electric Light Co., lighting	315 18	
N. E. Telephone & Telegraph Co., tolls, etc.	218 05	
A. Colman, sealer of weights and measures	100 00	
Charles A. Small, pound keeper,	60 42	
S. J. Woods, fitting keys, etc.	19 30	
Mrs. J. C. Ellis, rent of polling place	40 00	
Philip Eberle, rent of polling place	25 00	
Ward officers	1,357 00	
Alice T. Sleeper, clerical ser- vices	85 00	
Alice T. Sleeper, car fares	3 20	
Katherine W. Wood, clerical ser- vices	125 00	
Cora F. Lewis, clerical services,	260 50	
Gertrude G. Kendall, clerical services	175 50	
Addie A. Snow, clerical services,	149 50	
Laura E. McBain, clerical ser- vices	142 00	
<i>Amounts carried forward</i>	<hr/> \$5,924 01	<hr/> \$17,125 85.

<i>Amounts brought forward</i>	\$5,924 01	\$17,125 85
Mary E. French, clerical services,	76 50	
Clara B. Snow, clerical services,	46 50	
Gertrude Pierce, clerical services	30 00	
Belle Horrell, clerical services,	32 00	
Charles G. Brett, clerical services	42 00	
Frank E. Merrill, clerical services	54 00	
William P. Pitman, clerical services	42 00	
William P. Cheney, clerical services	73 00	
Frederick S. Haynes, clerical services	72 00	
George Welsh, clerical services,	44 00	
Charles Delano, clerical services	32 00	
J. H. Wyman, refreshments	200 00	
The Alhambra, refreshments	82 20	
Silas D. Carter, refreshments,	15 00	
Charles Rickenburg & Co., refreshments	4 50	
S. S. Higgins, turkeys	106 03	
Prospect Hill Market, turkeys,	87 40	
W. O. Turner, turkeys	61 41	
Sheeran & Houley, turkeys	37 89	
W. P. Blanchard, turkeys	2 15	
City of Lowell, support of truants	241 42	
Commonwealth of Massachusetts, 25 per cent. of liquor licenses	11 25	
Thomas N. Hart, rent of P. O. box	4 00	
J. A. McLane, posting	107 10	
<i>Amounts carried forward</i>	\$7,428 36	\$17,125 85

<i>Amounts brought forward</i>	\$7,428 36	\$17,125 85
S. H. Libby, services as auctioneer	8 40	
Charles B. Stevens, recording,	29 23	
Byron Boyd, abstracts	19 00	
John E. Higgins, abstracts	1 00	
Charles L. Ellis, deputy collector,	675 00	
J. Lincoln Collins, brass work,	45 00	
Harry Russ, crayon	40 00	
Jairus Mann, watching	52 50	
M. A. Mann, laundrying	21 00	
C. M. Blake, newspapers	6 00	
Charles S. Robertson, rubber stamps, clerical services, etc.,	51 45	
Thomas Groom & Co., stationery,	4 25	
Belknap & Co., type	6 60	
J. H. Colbath, ringing bell, etc.,	17 00	
G. W. Littlefield, ringing bell	6 00	
William Gray, ringing bell	3 00	
Asbury Strahan, ringing bell	3 00	
George W. Jacobs, ringing bell	3 00	
F. H. Wentworth, ringing bell	3 00	
Fred S. Young, ringing bell	3 00	
Thomas Hollis, drugs	2 50	
H. Parker, stone work	4 00	
Joseph J. Giles, premium of insurance, etc.	261 00	
Boston Herald Co., advertising,	37 50	
H. D. & W. S. Durgin, ice	35 00	
Albert B. Fales, expenses of special committee	43 51	
Selwyn Z. Bowman, disbursements	216 69	
Jairus Mann, disbursements	21 29	
E. W. Bailey, disbursements	41 21	
F. W. D. Duncklee, disbursements	9 85	
<i>Amounts carried forward</i>	\$9,098 34	\$17,125 85

<i>Amounts brought forward</i>	\$9,098 34	\$17,125 85
C. R. Hultsman, disbursements,	3 80	
Carl B. Harvey, disbursements,	4 90	
William G. Stearns, disbursements	6 40	
B. F. Wild & Co., fuel	216 25	
Horatio Wellington & Co., fuel,	18 00	
A. M. Prescott, teaming	43 75	
E. R. Perham, expressing	16 60	
Charles E. Farnham, expressing	11 80	
Thorpe's Express, expressing	15	
Woodbridge & Co., expressing,	75	
Gilman's Express, expressing	30	
Bancroft's Express, expressing	35	
N. L. Pennock, labor	12 00	
E. P. Cook, labor	13 00	
C. F. Dawes, labor	6 00	
John O'Brien, labor	4 00	
John B. Miller, labor	7 75	
D. R. Spike, labor	4 00	
John Battles, labor	5 00	
C. A. Southwick, labor	30 80	
William Denton, labor	6 00	
Patrick O'Brien, labor	6 00	
Patrick O'Connell, labor	6 00	
A. Clark, labor	5 00	
A. A. Lewis, labor	11 50	
Martin Dassance, labor	4 00	
B. F. Sheridan, labor	16 00	
J. A. Taylor, labor	7 00	
W. H. Young, labor	10 00	
James L. Whitaker, labor	4 75	
Mrs. Hartness, labor	9 00	
George A. Page, labor	15 00	
W. A. Snow & Co., drinking fountain	325 00	
<i>Amounts carried forward</i>	\$9,929 19	\$17,125 85

<i>Amounts brought forward</i> .	\$9,929 19	\$17,125 85
N. D. Jones & Co., drinking fountain	93 75	
Willard C. Kinsley Post, 139, G. A. R., contribution for observance of Memorial Day,	350 00	
Albert C. Aldrich, return of births	10 00	
G. W. Bryant, return of births	7 50	
William A. Bell, professional services and return of births	87 25	
John T. Couch, return of births,	45 25	
A. H. Carvill, return of births	6 25	
Charles S. Cahill, return of births	4 50	
Alvah B. Dearborn, return of births	7 00	
Thomas M. Durell, return of births	19 50	
A. Ward Follett, return of births	5 50	
John A. Gregg, return of births,	7 25	
R. L. Lane, return of births	5 75	
H. B. McIntire, return of births,	3 75	
George W. Mills, return of births	50	
F. W. Taylor, return of births	3 00	
G. E. Hetherington, return of births	5 25	
W. H. Bailey, return of births	3 50	
John M. Schroeder, return of births	118 20	
Arthur C. Sellon, return of births	44 20	
E. G. Wiswell, return of births	40 60	
John W. Coveney, return of deaths	7 75	
<i>Amounts carried forward</i>	<u>\$10,805 44</u>	<u>\$17,125 85</u>

<i>Amounts brought forward</i>	\$10,805 44	\$17,125 85
William A. Flaherty, return of deaths	45 00	
C. H. Lockhart, return of deaths,	12 25	
E. H. Marsh, return of deaths	25 75	
Alfred E. Mann, return of deaths,	18 00	
Horace D. Runey, return of deaths	31 50	
P. H. Rafferty, return of deaths,	17 75	
Catherine Brooks, compensation for damages	2,700 00	
Alice F. Murphy, compensation for damages	150 00	
Mary Murphy, compensation for damages	175 00	
Joseph T. Washburn, compensation for damages	300 00	
N. & B. Klarfield, compensation for damages	100 00	
William M. Colby, compensation for damages	100 00	
A. M. Young, compensation for damages	53 25	
James J. Irving, compensation for damages	50 00	
Thomas H. Dolhenty, compensation for damages	50 00	
William H. Blethen, compensation for damages	45 00	
Fred W. Coles, compensation for damages	20 50	
George Mulliken, compensation for damages	3 00	
Baldwin's Cadet Band, semi-centennial celebration	344 00	
Boardman's Cadet Band, semi-centennial celebration	160 00	
<i>Amounts carried forward</i>	\$15,206 44	\$17,125 85

<i>Amounts brought forward</i> .	\$15,206 44	\$17,125 85
Bedford Cadet Band, semi-centennial celebration . . .	50 00	
Carter's Cadet Band, semi-centennial celebration . . .	210 00	
Woburn Band, semi-centennial celebration	99 82	
Woburn Brass Band, semi-centennial celebration	97 29	
Eighth Regiment Band, semi-centennial celebration	100 00	
S. Henry Hadley, services, semi-centennial celebration	65 00	
Mrs. W. C. Bailey, services, semi-centennial celebration	15 00	
E. A. Binney, rent of land for grand stand	65 00	
Loring & Phipps, plans for grand stand	55 00	
George M. Starbird, constructing grand stand	600 67	
Colonel William Beals, decorating	25 00	
Co. M, Eighth Regiment, M. V. M., appropriation for refreshments	175 00	
James R. Hopkins, for refreshments	125 00	
William Hall & Co., staff holders,	1 50	
J. Stewart & Co., printing	3 75	
M. B. McManus, typewriting	4 50	
E. A. Pinnock, typewriting	2 75	
L. H. Brown, carriage hire	94 00	
H. M. Weld, carriage hire	14 00	
Brown & Smith, carriage hire	12 00	
J. E. Herrick, band stand	104 13	

\$17,125 85

NATHAN TUFTS PARK.

CREDIT.

Appropriation, amount appropriated by borrowing on funded debt account		\$25,000 00
Cash, received of Catherine Collins, old house	\$126 00	
Bridget Connors, bricks	25 00	
William F. Emerson, wood	9 50	
Frank E. Chandler, grass	10 00	
	<hr/>	170 50
		<hr/>
		\$25,170 50

DEBIT.

Cash, paid Heirs of Nathan Tufts, Sr., 129,497 feet of land	\$19,424 55	
Christopher Burke, on account of contract for grading	2,167 12	
Laborers	142 58	
I. H. Brown & Co., lumber	8 60	
F. C. Ayer, lumber	4 63	
J. E. Herrick, door and window,	4 17	
J. Q. Twombly, painting	3 50	
E. A. Pinnock, copying	6 80	
	<hr/>	\$21,761 95
Balance to credit in account 1893,	3,408 55	
	<hr/>	<hr/>
		\$25,170 50

OVERLAY AND ABATEMENT.

CREDIT.

Balance from 1891		\$13,115 44
Taxes, amount added by the assessors for convenience in apportion- ment, to be applied to abate- ment on taxes	\$22,271 95	
Cash, taxes collected	6 94	
	<hr/>	22,278 89
		<hr/>
<i>Amount carried forward</i>		\$35,394 33

Amount brought forward \$35,394 33

DEBIT.

Taxes, for amount of abatements on	
taxes	\$24,027 60
Broadway Parkway, amount transferred,	4,500 00
Excess and Deficiency, amount trans-	
ferred	4,323 99
Balance to credit in account 1893 .	2,402 74

\$35,394 33

OVERPLUS ON TAX SALES.

CREDIT.

Balance from 1891	\$102 13
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DEBIT.

Balance to 1893	\$102 13
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POLICE.

CREDIT.

Appropriations, amount assessed	\$24,000 00
Cash, received of the state bank and	
corporation taxes	\$17,250 07
H. A. Chapin, clerk of court,	
officers' fees, fines, etc.	1,706 01
John M. Fisk, master of house	
of correction, fines, etc.	353 50
Michael Collins, old zinc, etc.	12 39

19,321 97

\$43,321 97

DEBIT.

Cash, paid M. C. Parkhurst, chief	\$1,900 00
Robert R. Perry, captain	1,500 00
Samuel R. Dow, sergeant	1,000 00

<i>Amounts carried forward</i>	\$4,400 00	\$43,321 97
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<i>Amounts brought forward</i>	.	\$4,400 00	\$43,321 97
Edward McGarr, sergeant	.	1,200 00	
Christopher C. Cavanagh, sergeant	.	1,200 00	
Dennis Kelley, sergeant	.	1,166 90	
John F. Johnson, patrolman,		1,098 00	
Eugene A. Carter,	"	1,098 00	
George L. Smith,	"	1,095 00	
Edward N. Carter,	"	1,098 00	
Samuel A. Brown,	"	1,098 00	
John E. Fuller,	"	1,098 00	
George W. Bean,	"	1,098 00	
George A. Bodge,	"	1,098 00	
Phineas W. Skinner,	"	1,098 00	
Hubert H. Miller,	"	1,095 00	
Edward E. Hamblin,	"	1,098 00	
John Hafford,	"	1,098 00	
Albion L. Staples,	"	1,098 00	
George H. Carleton,	"	1,098 00	
Judson W. Oliver,	"	1,098 00	
Francis A. Perkins,	"	1,098 00	
Charles S. Thrasher,	"	1,098 00	
William H. Johnston,	"	1,095 00	
Charles E. Woodman,	"	1,080 00	
Arthur E. Keating,	"	1,098 00	
John G. Knight,	"	1,098 00	
Stephen S. Smith,	"	1,095 00	
Jacob W. Skinner,	"	1,098 00	
Theodore E. Herron,	"	1,072 25	
David A. Bolton,	"	920 25	
John A. Dadman,	"	307 50	
Ulysses G. Skinner,	"	572 50	
George T. E. Coles,	"	562 50	
James M. Harmon,	"	562 50	
Michael T. Kennedy,	"	560 00	
Charles W. Stevens,	"	560 00	
Ira S. Carleton,	"	557 50	
<i>Amounts carried forward.</i>	.	\$38,865 90	\$43,321 97

<i>Amounts brought forward</i>	\$38,865 90	\$43,321 97
Ezra A. Dodge, patrolman,	557 50	
Eugene H. Gammons, "	555 00	
Zeba F. Coffin, patrolman, special,	59 50	
Davis P. Bucknam, "	7 50	
Jeremiah J. Meaney, "	10 00	
Peter Savage, "	11 50	
N. L. Pennock, "	20 50	
William H. Kelley, "	139 00	
Andrew S. Arnold, "	18 00	
William H. Whitcomb, "	2 50	
George C. Foss, "	8 00	
James McLeod, "	4 00	
Daniel H. Rinn, "	8 00	
William J. Blaisdell, "	4 00	
B. F. Sheridan, "	8 00	
A. A. Lewis, "	8 00	
Joseph Young, "	8 00	
L. M. Maynard, "	8 00	
John F. Cotter, "	8 00	
Peter J. Savage, "	12 00	
Alfred M. Sibley, "	4 00	
Edward F. Reed, "	8 00	
William F. C. Blaisdell, "	4 00	
Fred S. Young, "	4 00	
Lewis R. Stewart, "	4 00	
Alex. Penny, work in stable	15 75	
M. C. Parkhurst, lock-up keeper,	100 00	
M. C. Parkhurst, disbursements,	19 22	
Samuel R. Dow, disbursements,	26 61	
Dennis Kelley, disbursements	27 78	
Robert R. Perry, disbursements,	4 60	
Edward M. Carter, disbursements	51	
Lemuel H. Snow, disbursements,	25 89	
Fulton O'Brien, hay and grain	251 89	
Edward O'Brien, horseshoeing	26 88	
<i>Amounts carried forward</i>	\$40,846 03	\$43,321 97

<i>Amounts brought forward</i>	\$40,846 03	\$43,321 97
E. Spalding, harness work	4 40	
D. J. Bennett, harness work	50	
W. E. Plumer, hardware	23 43	
Howe & Flint, hardware	4 10	
L. M. Ham & Co., ironwork	1 00	
William T. Henderson, painting wagon	25 00	
Boston Woven Hose & Rubber Co., matting	22 32	
James Bartley, soap, etc.	1 76	
George H. Cowdin, sponges	5 20	
W. Schuebeler, towels	11 40	
Jackson Caldwell & Co., carpets,	15 50	
J. N. Porter, meals	31 25	
C. B. Cheney, photographs	4 00	
John P. Lovell Arms Co., revolvers	113 87	
Joseph C. Power, badges	30 25	
Scovelle Manfg. Co., buttons	10 13	
George W. Simmons & Co., wreaths	4 50	
Simon Connor, wreaths	5 00	
H. A. Winship, regalia	31 00	
D. Cutter, repairing badges	75	
Union Glass Co., globes	14 50	
Elijah Walker, carpentering	1 30	
Fresh Pond Ice Co., ice	22 50	
N. Davis & Co., water cooler	12 00	
Thomas Groom & Co., stationery	52 88	
M. L. Vinal, stationery	1 30	
Little, Brown, & Co., law books	17 50	
M. R. Warren, law books	16 50	
W. A. Greenough & Co., directory	2 00	
Citizen Publishing Co., printing,	2 00	
<i>Amounts carried forward</i>	\$41,333 87	\$43,321 97

<i>Amounts brought forward</i>	\$41,333 87	\$43,321 97
C. M. Blake, newspapers	21 90	
Pettingill, Andrews, Co., electrical supplies	158 73	
National Electric Co., electrical supplies	55 39	
Municipal Signal Co., electrical supplies	15 50	
Cornelius Callahan & Co., electrical supplies	12 00	
Gillis & Gleeson, repairs of signal service	4 50	
Union Square Carriage Co., repairs	48 50	
L. D. Miller, stable supplies	5 00	
Horatio Wellington & Co., fuel,	55 10	
New England Telephone & Telegraph Co., rentals and tolls	568 25	
S. J. Wood, keys, etc.	1 50	
A. Babson, mending flag	1 00	
Ray's Laundry, washing	2 26	
F. G. Ray & Son, washing	21 33	
James Sullivan, labor	3 00	
Cornelius Sullivan, labor	3 00	
James Fitzpatrick, labor	3 00	
Jacob H. Tracy, labor	5 00	
James D. Perkins, labor	2 00	
Samuel A. Coombs, labor	36 00	
George L. Blackbird, labor	32 00	
Fred A. Blackburn, labor	15 00	
Frank W. Nicholson, labor	15 00	
Charles E. Farnham, expressing,	2 50	
Gilman's Express, expressing	65	
James F. Fitzgerald, carriage hire	5 50	
Stephen F. Cate, carriage hire,	13 25	
Dodge & Reed, carriage hire	8 00	
<i>Amounts carried forward</i>	\$42,448 73	\$43,321 97

<i>Amounts brought forward</i>	\$42,448 73	\$43,321 97
Frank W. Leavitt, carriage hire,	2 00	
John H. Kelley, carriage hire	30 00	
Charles W. Dailey, use of ambulance	22 00	
L. H. Brown, carriage hire	13 00	
W. H. Way, veterinary services,	18 50	
Emery L. White, professional services	5 00	
Boston Police Department, police officers	156 78	
City of Lowell, police officers	78 00	
City of Malden, police officers	16 00	
City of Cambridge, police officers	71 45	
City of Newton, police officers	34 00	
N. F. Hardy, refreshments	93 75	
	<hr/>	
	\$42,989 21	
Exces's and Deficiency, balance to credit of account	332 76	
	<hr/>	
		<u>\$43,321 97</u>

POLICE STATION INCIDENTALS.

CREDIT.

Appropriations, amount assessed		\$3,500 00
Cash, received of Commonwealth of Massachusetts, rent of armory,	\$400 00	
Somerville Co-operative Bank, use of court room	30 00	
	<hr/>	
		430 00
		<hr/>
		\$3,930 00

DEBIT.

Cash, paid William D. Hayden, janitor,	\$850 00	
William D. Hayden, disbursements	4 00	
Cambridge Gas Light Co., gas	697 60	
	<hr/>	
<i>Amounts carried forward</i>	\$1,551 60	\$3,930 00

<i>Amounts brought forward</i>	\$1,551 60	\$3,930 00
City of Boston, water	90 70	
New England Telephone & Telegraph Co., rental and tolls	29 55	
Boston Germicide Co., service	49 95	
James F. Davlin, plumbing	22 64	
Richard Dowd, plumbing	2 75	
W. E. Plumer & Co., hardware,	18 03	
J. A. Durell, hardware	48 50	
Howe & Flint, hardware	29 35	
John R. Thompson, carpentering	258 16	
J. H. Keenan, carpentering	68 20	
A. M. Godfrey, carpentering	136 28	
D. P. Bucknam, mason work	62 35	
J. Q. Twombly, painting	920 92	
Fred A. Norris, painting	121 02	
Patrick O'Connell, painting	25 13	
L. C. Seavey, slating	13 53	
Boston Woven Hose Co., matting	10 07	
George W. Hurn & Co., cleaning carpets	6 98	
W. H. Brine, shades	42 61	
P. Derby & Co., chairs	54 50	
Derby & Kilmer Desk Co., desk and chairs	77 00	
H. Wellington & Co., fuel	117 06	
Charles Billman, labor on flag-staff	10 00	
Union Glass Co., globes	6 50	
S. J. Wood, keys	1 00	
Bigelow & Dowse, rope	1 00	
James Bartley, matches	30	
	<hr/>	
	\$3,775 68	
Excess and Deficiency, balance to credit of account	154 32	
	<hr/>	
		<u>\$3,930 00</u>

PRINTING AND STATIONERY.

CREDIT.

Appropriation, amount assessed		\$6,300 00
Cash, received of Citizen Publishing Company, discount on bill	\$8 25	
Excess and Deficiency, balance to debit of account	545 21	
	<hr/>	553 46
		<hr/>
		\$6,853 46

DEBIT.

Cash, paid Somerville Journal Company, printing, etc.	\$3,171 30	
Citizen Publishing Co., printing, etc.	267 76	
McDonnell Bros., printing, etc.,	119 00	
Rockwell & Churchill, printing, etc.	942 70	
Beacon Lithograph Co., printing, etc.	112 50	
Babb & Stephens, printing, etc.,	68 50	
J. L. McIntosh, printing, etc.	16 16	
Thomas Groom & Co., printing and stationery	2,143 54	
W. A. Greenough & Co., direc- tories	12 00	
	<hr/>	\$6,853 46
		<hr/>

PROPERTY AND DEBT BALANCE.

CREDIT.

Balance from 1891		\$640,137 46
Public Property, property acquired dur- ing the year 1892	\$69,814 12	
Reduction of funded debt	104,000 00	
Renewals of funded debt	28,000 00	
	<hr/>	201,814 12
		<hr/>
<i>Amount carried forward</i>		\$841,951 58

Amount brought forward \$841,951 58

DEBIT.

Appropriations, amount borrowed on funded debt account . . .	\$228,000 00	
Amount authorized for which the bonds have not been issued .	53,000 00	
Public Property, amount sold during the year 1892 . . .	3,100 00	
Balance to credit in account 1893 .	557,851 58	
		<u>\$841,951 58</u>

PUBLIC GROUNDS.

CREDIT.

Appropriations, amount assessed	\$4,300 00
Interest, amount transferred	1,400 00
Schoolhouse Incidentals, grading	567 12
	<u>\$6,267 12</u>

DEBIT.

Cash, paid laborers	\$3,579 78	
Somerville Electric Light Co., lighting	300 30	
T. F. Crimmings, teaming	432 52	
A. M. Prescott, teaming	211 50	
A. M. Prescott, grain	17 23	
Christopher Burke, teaming	122 72	
Henry Gray, teaming	21 90	
Martin Gill, teaming	15 50	
Jonathan Brown, loam	44 70	
Charles A. Mongan, loam, etc.	118 00	
Heirs Nathan Tufts, Sr., loam	69 85	
H. W. P. Colson, sods	76 60	
Charles Callahan, manure	4 50	
Eugene Ford, manure	10 17	
John Galvin, manure	7 62	
Daniel Hoar, manure	13 47	
<i>Amounts carried forward</i>	<u>\$5,046 36</u>	<u>\$6,267 12</u>

<i>Amounts brought forward</i>	\$5,046 36	\$6,267 12
John W. Hennessey, manure	6 75	
L. M. Maynard, manure	24 20	
John Monahan, manure	15 24	
John Sweeney, manure	10 17	
J. T. Molloy, manure	19 50	
Joseph Breck & Sons, seed	229 98	
Ames Plow Co., horse boots	9 00	
Parker & Wood, plow, etc.	15 80	
Whitney & Snow, hardware	134 89	
Howe & Flint, hardware	1 73	
M. D. Jones & Co., hardware	3 60	
F. C. Ayer, agent, lumber	82 83	
I. H. Brown & Co., lumber	10 05	
Portland Stone Ware Co., pipe	5 72	
W. J. Cogan, painting	16 50	
L. A. Wright, repairing cart	3 45	
John R. Farnham, trees	10 00	
Green Brothers, plants, etc.	90 00	
S. J. Wood, keys	1 50	
C. L. Underhill, repairing tools,	1 00	
Joseph Young, repairing tools	17 30	
Young & Maynard, plumbing	1 50	
L. H. Brown, carriage hire	10 00	
F. DeWitt Lapham, premium of insurance	10 00	
G. W. Manning, labor on flag- staff	26 20	
Charles E. Farnham, expressing,	7 35	
J. Q. Twombly, painting	2 00	
R. E. Archibald, painting	19 29	
Citizen Publishing Co., advertis- ing	5 50	
Somerville Journal Co., advertis- ing	4 00	
Seba F. Coffin, police officer	27 50	
Jere J. Meaney, police officer	37 50	
<i>Amounts carried forward</i>	\$5,906 41	\$6,267 12

<i>Amounts brought forward</i> .	\$5,906 41	\$6,267 12
Sidewalk Assessments, side-walks	205 97	
Sewers account, catch-basin .	58 92	
Watering Streets account, watering	71 01	
J. A. Durell, hardware . . .	17 29	
	<hr/>	
	\$6,259 60	
Excess and Deficiency, balance to credit of account . . .	7 52	
	<hr/>	
		<u>\$6,267 12</u>

PUBLIC LIBRARY.

CREDIT.

Appropriations, amount assessed		\$4,000 00
Balance from 1891	\$3 48	
Cash, received of J. O. Hayden, county treasurer, return on the amount received of the city for dog licenses in 1891 .	1,003 97	
H. A. Adams, librarian, fines .	420 14	
Catalogues	33 90	
A. S. Hudson, discount on bill, .	4 00	
Excess and Deficiency, balance to debit of account . . .	335 44	
	<hr/>	
		1,800 93
		<hr/>
		\$5,800 93

DEBIT.

Cash, paid Little, Brown, & Co., books, .	\$916 02	
Estes & Lauriat, books . . .	402 14	
George E. Littlefield, books .	628 47	
C. L. Webster & Co., books .	12 00	
Naturalist Bureau, books . .	2 60	
	<hr/>	
<i>Amounts carried forward</i> . .	\$1,961 23	\$5,800 93

<i>Amounts brought forward</i>	\$1,961 23	\$5,800 93
J. G. Cupples, books	5 00	
J. H. Lamb, books	6 00	
P. F. Collier, books	10 00	
Charles H. Kilham, books	5 75	
A. S. Hudson, books	4 00	
B. N. Galpin, books	2 00	
Houghton, Mifflin, & Co., books,	40 00	
Balch Brothers, books	75 00	
Salem Press Publishing Co., books	2 00	
J. G. Roberts & Co., binding books	109 85	
E. H. Sheldon, magazine covers,	27 50	
W. A. Greenough & Co., direc- tory	2 00	
Somerville Journal Co., news- papers	12 00	
Thomas Groom & Co., station- ery	5 85	
Babb & Stephens, printing	134 75	
Rockwell & Churchill, printing,	129 36	
A. A. Sanborn, steam boiler	460 73	
N. W. Turner & Co., gas fixtures,	130 75	
Harrison, Beard, & Co., book- cases	60 00	
T. F. McGann, bookcases	42 00	
F. A. Chandler, carpenter work,	5 46	
L. C. Seavey, repairing roof	2 08	
Young & Maynard, plumbing	2 10	
Whitney & Snow, hardware	2 40	
N. L. Chamberlain, ribbon	1 50	
L. G. Field, brush	3 00	
Gilman's Express, expressing	41 40	
E. R. Perham, expressing	31 15	
Charles E. Farnham, expressing,	30 72	
City of Boston, water	29 00	
<i>Amounts carried forward</i>	\$3,374 58	\$5,800 93

<i>Amounts brought forward</i>	\$3,374 58	\$5,800 93
Cambridge Gas Light Co., gas	197 28	
H. Wellington & Co., fuel	18 00	
C. C. Searles, disinfectant	1 00	
H. A. Adams, librarian	800 01	
Anna L. Stone, assistant	400 00	
Mary J. Warren, assistant	400 00	
Edith A. Woodman, assistant	156 48	
M. Gertrude Knapp, assistant	118 43	
F. Mable Norcross, assistant	131 45	
Harry B. Bullen, assistant	55 60	
William C. Hammond, assistant,	36 80	
Elizabeth Goldsmith, assistant	11 30	
H. C. Garcelon, branch office	100 00	
	<hr/>	<hr/>
		\$5,800 93

PUBLIC PROPERTY.

CREDIT.

Property and Debt Balance, property sold during the year 1892	\$3,100 00
Balance to debit in account 1893	1,752,351 58
	<hr/>
	\$1,755,451 58

DEBIT.

Balance from 1891	\$1,685,637 46
Property and Debt Balance, property acquired in 1892	69,814 12
	<hr/>
	\$1,755,451 58

REAL-ESTATE LIENS.

CREDIT.

Balance to 1893	\$888 40
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DEBIT.

Balance from 1891	\$888 40
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REDUCTION OF FUNDED DEBT.

CREDIT.

Appropriations, amount assessed	\$60,000 00
Cash, Maverick National Bank dividends	\$77,185 00
City of Boston, return on water rates	6,896 71
	<u>84,081 71</u>
	<u>\$144,081 71</u>

DEBIT.

Property and Debt Balance, amount of reduction of funded debt in 1892	\$104,000 00
Balance to credit in account 1893	40,081 71
	<u>\$144,081 71</u>

RENEWALS OF FUNDED DEBT.

CREDIT.

Appropriations, amount assessed	\$28,000 00
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DEBIT.

Property and Debt Balance, amount of funded debt renewed in 1892	<u>\$28,000 00</u>
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RELIEF AND BURIAL OF INDIGENT SOLDIERS AND SAILORS.

CREDIT.

Appropriations, amount assessed	\$3,000 00
State of Massachusetts, one-half of amount paid for burials in 1892,	\$87 50
Excess and Deficiency, balance to debit of account	942 42
	<u>1,029 42</u>
	<u>\$4,029 42</u>

DEBIT.

Cash, paid monthly pay rolls	<u>\$4,029 42</u>
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SALARIES.

CREDIT.

Appropriations, amount assessed		\$31,085 00
Cash, W. C. Bailey, Jr., error in pay roll,	\$6 92	
Excess and Deficiency, balance to debit of account	366 20	
	<hr/>	373 12
		<hr/>
		\$31,458 12

DEBIT.

Cash, paid William H. Hodgkins, mayor,	\$1,000 00
George I. Vincent, city clerk	2,300 00
John F. Cole, city treasurer and collector of taxes	3,200 00
Horace L. Eaton, city engineer,	2,400 00
Selwyn Z. Bowman, city solicitor,	1,500 00
Alvah B. Dearborn, city physi- cian	950 00
Charles S. Robertson, city audi- tor	500 00
Charles S. Robertson, clerk of Common Council	250 00
William P. Mitchell, clerk of committees	1,500 00
Albert B. Fales, clerk of asses- sors	1,500 00
Sarah A. Miles, assistant to treasurer	200 00
Beulah M. Peirce, department clerk	175 00
Beulah M. Pierce, assistant to treasurer	600 00
Alice T. Sleeper, assistant to clerk of assessors	45 00
Alice T. Sleeper, assistant to treasurer	535 00
	<hr/>
<i>Amounts carried forward</i>	\$16,655 00

\$31,458 12

<i>Amounts brought forward</i>	\$16,655 00	\$31,458 12
Amy L. Manning, assistant to city clerk	650 00	
Katherine W. Wood, assistant to clerk of assessors	314 99	
Frederick W. Cook, assistant to clerk of committees	423 33	
Jairus Mann, city messenger	1,500 00	
Thomas R. Roulstone, inspector of buildings	1,800 00	
William H. Whitcomb, janitor of City Hall and Public Library,	800 00	
Thomas Cunningham, inspector of milk	300 00	
Thomas Cunningham, inspector of provisions	100 00	
James R. Hopkins, superintend- ent of electric lines	250 00	
Benjamin F. Thompson, assessor,	750 00	
George W. Hadley, assessor	750 00	
Samuel T. Richards, assessor	750 00	
Joshua H. Davis, assistant as- sessor	62 50	
Edward G. Wiswell, assistant assessor	187 50	
William A. Flaherty, assistant assessor	250 00	
Edgar T. Mayhew, assistant assessor	250 00	
Harry A. True, assistant as- sessor	250 00	
Cromwell G. Rowell, registrar of voters	200 00	
Charles P. Lincoln, registrar of voters	200 00	
William B. Hawes, registrar of voters	200 00	
<i>Amounts carried forward</i>	\$26,643 32	\$31,458 12

<i>Amounts brought forward</i>	\$26,643 32	\$31,458 12
George I. Vincent, registrar of voters	200 00	
Florence M. Grow, clerical services	135 00	
Helen G. Frye, clerical services	43 00	
Lottie T. Horton, clerical services	37 00	
Engineer's assistants	4,399 80	
	<hr/>	<hr/>
		\$31,458 12

SCHOOL TEACHERS' SALARIES.

CREDIT.

Appropriations, amount assessed	\$108,000 00
Excess and Deficiency, balance to debit of account	58 81
	<hr/>
	\$108,058 81

DEBIT.

Cash, paid salaries	\$108,058 81
	<hr/>

SCHOOL CONTINGENT.

CREDIT.

Appropriations, amount assessed	\$13,000 00
Cash, received of D. F. McCurdy, tuition of non-resident pupil	\$16 00
Wilbur F. Warren, tuition of non-resident pupil	8 00
F. W. Whitney, tuition of non-resident pupil	8 00
Cyrus K. Wood, tuition of non-resident pupil	15 00
Winslow T. Perkins, tuition of non-resident pupil	15 00
	<hr/>
<i>Amounts carried forward</i>	\$62 00
	<hr/>
	\$13,000 00

<i>Amounts brought forward</i>	\$62 00	\$13,000 00
Highways account, rental of telephone	3 00	
Excess and Deficiency, balance to debit of account	131 81	
	<hr/>	196 81
		<hr/>
DEBIT.		\$13,196 81

Cash, paid Clarence E. Meleney, salary as superintendent of schools, Disbursements	\$2,500 02	
L. H. Snow, truant officer	25 21	
L. H. Snow, school census	900 00	
L. H. Snow, school census	100 00	
Jairus Mann, truant officer	49 98	
C. M. Taylor, clerk in superintendent's office	300 00	
Ginn & Co., books	481 31	
Lee & Shepard, books	135 44	
Leach, Shewell, & Sanborn, books	122 10	
The Interstate Publishing Co., books	34 70	
University Publishing Co., books, Edward E. Babb & Co., books	673 15	
Allyn & Bacon, books	115 43	
DeWolfe, Fiske, & Co., books	19 34	
DeWolfe, Fiske, & Co., books	9 00	
Carl Schoenhof, books	233 73	
Boston School Supply Co., books, Silver, Burdett, & Co., books	327 26	
American Book Co., of New York, books	160 63	
American Book Co., of New York, books	25 00	
American Book Co., books	1,459 20	
William Ware & Co., books	157 45	
Willard Small, books	70 69	
Effingham, Maynard, & Co., books	14 55	
Houghton, Mifflin, & Co., books,	12 39	
	<hr/>	
<i>Amounts carried forward</i>	\$7,926 58	\$13,196 81

<i>Amounts brought forward</i>	\$7,926 58	\$13,196 81
D. Lothrop & Co., books	26 05	
Joseph Watrous, book covers	160 05	
D. C. Heath & Co., maps, etc.	55 50	
Thompson, Brown, & Co., cards,	96 92	
Prang Educational Co., paper, etc.	1,236 54	
A. E. Whitten, blocks	60 00	
S. N. Ufford & Son, forms	3 50	
R. H. Stearns & Co., ribbon	4 68	
Shepard, Norwell, & Co., ribbon,	7 88	
E. O. White, flowers	3 75	
F. W. Kaan, flowers	75	
Franklin Educational Co., sup- plies	3 12	
Augusta L. Balch, supplies	2 15	
Maizie E. Blaikie, supplies	3 65	
Frost & Adams, supplies	28 80	
George S. Perry & Co., supplies,	122 36	
Weeks, Potter, & Co., supplies	15 08	
The Thorp & Martin Mfg. Co., supplies	17 60	
The Thorp & Adams Mfg. Co., supplies	30 88	
George F. King & Merrill, sup- plies	559 40	
W. E. Plumer & Co., supplies,	44 91	
Withall, Tatum, & Co., supplies,	7 93	
D. H. Rinn, supplies	75	
J. L. Hammett, supplies	327 49	
Smith & White, supplies	44 00	
Library Bureau, supplies	61 40	
Daniel F. Ames, supplies	20 81	
Carter, Rice, & Co., supplies	3 56	
Pulsifer, Jordan, & Co., supplies,	6 62	
Holland & Daniels, mounting maps	11 50	
<i>Amounts carried forward</i>	<u>\$10,894 21</u>	<u>\$13,196 81</u>

<i>Amounts brought forward</i>	\$10,894 21	\$13,196 81
Stewart & Co., clay	8 90	
Carlos L. Page & Co., boxes	1 93	
R. W. Karnan & Co., cases	1 80	
J. G. Roberts & Co., binding books	11 40	
George E. Nichols, disbursements	20 51	
John S. Hayes, disbursements	35 73	
F. W. Shattuck, disbursements	17 27	
George L. Baxter, disbursements	4 80	
M. J. Wendall, disbursements	4 65	
H. N. Andrews, disbursements	5 55	
G. M. Wadsworth, disbursements	21 22	
Charles E. Brainard, disbursements	23 83	
G. A. Southworth, disbursements	8 00	
Boston Bank Note Co., diplomas,	81 43	
C. A. French, filling in diplomas,	76 10	
W. A. Greenough & Co., directory	2 00	
H. C. Dimond & Co., stamp	20	
J. C. Haynes & Co., repairing drums	2 00	
J. H. Bremner & Co., frames	8 70	
Somerville Journal Co., printing,	569 59	
Citizen Publishing Co., printing,	120 00	
Howe & Flint, hardware	4 25	
Frederic A. Chandler, carpentering	39 30	
E. F. Daniels, tuning pianos	8 00	
Joseph Young, labor	3 00	
Thomas N. Hart, rent of P. O. box	3 00	
<i>Amounts carried forward</i>	<u>\$11,977 37</u>	<u>\$13,196 81</u>

<i>Amounts brought forward</i>	\$11,977 37	\$13,196 81
City of Boston, water	593 45	
City of Cambridge, water	17 50	
Charlestown Gas Co., gas	137 92	
Cambridge Gas Light Co., gas	208 32	
Somerville Electric Light Co., lighting	107 21	
N. E. Telephone & Telegraph Co., rental, etc.	31 90	
A. M. Prescott, teaming	39 00	
Charles E. Farnham, expressing,	68 79	
Gilman's Express, expressing	4 50	
Stilphen & Co., expressing	4 15	
E. R. Perham, expressing	2 90	
F. D. Woodbridge, expressing	3 50	
Barker & Tibbetts, expressing	30	
	<hr/>	\$13,196 81

SCHOOL CONTINGENT, JANITORS' SALARIES.

CREDIT.

Appropriations, amount assessed	\$10,000 00
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DEBIT.

Cash, paid salaries	\$9,794 92
Excess and Deficiency, balance to credit of account	205 08
	<hr/>
	\$10,000 00

SCHOOL FUEL.

CREDIT.

Appropriations, amount assessed	\$7,150 00
<i>Amount carried forward</i>	<hr/>
	\$7,150 00

Amount brought forward \$7,150 00

DEBIT.

Cash, paid H. Wellington & Co., fuel .	\$2,733 40
B. F. Wild & Co., fuel . .	2,111 89
G. M. Winslow & Co., fuel .	1,798 04
J. A. Porter, fuel . . .	504 35
	<hr/>
	\$7,147 68

Excess and Deficiency, balance to credit of account . .	2 32
	<hr/>

\$7,150 00

SCHOOLHOUSE INCIDENTALS.

CREDIT.

Appropriations, amount assessed	\$10,000 00
Interest, amount transferred	1,500 00
Cash, received of Ellen Hayes, land on Prospect Street	\$2,340 00
Perkins-street Baptist Church, use of ward room	115 00
Frank Timney, junk	19 07
Frederick A. Chandler, old ven- tilator	3 00
	<hr/>
	2,477 07

Excess and Deficiency, balance to debit of account	3,757 11
	<hr/>

\$17,734 18

DEBIT.

Cash, paid Frederick A. Chandler, car- pentering	\$634 99
C. A. Slager, carpentering .	478 72
John D. Hills, carpentering .	267 94
	<hr/>

<i>Amounts carried forward</i> . .	\$1,381 65	\$17,734 18
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<i>Amounts brought forward</i>	\$1,381 65	\$17,734 18
George W. Trefren, Jr., carpentering	183 48	
John R. Thompson, carpentering	139 19	
H. S. Brackett, carpentering	126 45	
Fuller & Mathews, carpentering,	31 85	
J. E. Herrick, carpentering	49 98	
A. M. Godfrey, carpentering	43 15	
Gillis Brothers, carpentering	25 75	
Thomas Gordan, carpentering	13 51	
I. H. Brown & Co., carpentering	60	
D. P. Bucknam, mason work	332 33	
A. C. Winning, mason work	487 00	
P. Lacey, mason work	81 85	
Coon & Hall, mason work	40 65	
John Kennedy, mason work	19 98	
J. E. Parsons, plumbing	93 37	
James F. Davlin, plumbing	69 36	
Young & Maynard, plumbing	80 66	
C. W. Cahalan, plumbing	52 18	
Charles A. Holmes, plumbing	6 89	
W. L. Snow, plumbing	12 75	
C. A. Legallee, plumbing	3 62	
W. S. Hanna & Co., plumbing,	3 15	
Duncan C. Greene, plumbing	75	
J. E. Merrifield, stove work, etc.,	178 13	
J. W. Johnson, stove work, etc.,	101 35	
J. A. Durell, hardware, etc.	295 83	
Howe & Flint, hardware, etc.	575 53	
W. E. Plumer, hardware, etc.	142 19	
Bigelow & Dowse, hardware, etc.,	864 03	
Whitney & Snow, hardware, etc.,	33 77	
F. C. Fuller & Son, hardware, etc.	35 64	
W. I. Heald, hardware, etc.	9 74	
<i>Amounts carried forward</i>	\$5,516 36	\$17,734 18

<i>Amounts brought forward</i>	\$5,516 36	\$17,734 18
Dupont & Coté, hardware, etc.,	3 28	
Goodwin & Cutler, painting	209 45	
C. H. Tufts, painting	167 58	
J. F. Burton, painting	156 81	
A. Fisher, painting	455 00	
D. W. McDermott, painting	138 95	
J. H. Hollis, painting	134 39	
Fred A. Norris, painter	122 47	
E. P. Peterson, painter	15 00	
S. W. Fuller, lumber	164 69	
F. C. Ayer, agent, lumber	4 61	
James Deacon, whitewashing	35 50	
Fred Davis, whitewashing	83 07	
L. C. Seavey, slating	77 88	
Williams & Co., slate	48 00	
G. C. Dunklee, furnace	415 00	
A. A. Sanborn, steam fitting	373 75	
Braman, Dow, & Co., steam fitting	35 24	
Fuller & Warren W. & V. Co., steam fitting	2 50	
Walker & Pratt Mfg. Co., furnace brush	1 25	
Somerville Iron Foundry Co., grates	39 45	
Continental Grate Co., grates	47 75	
The S. M. Howes Co., shakers	4 50	
Seward Dodge, bolts	9 00	
J. L. Hammett, repairing blackboards	207 83	
George S. Perry, repairing blackboards	67 63	
J. E. Bell, repairing blackboards,	60 01	
Jordan, Marsh, & Co., carpet	111 37	
H. H. Cotton & Co., carpet	98 67	
Jackson Caldwell & Co., carpet,	17 15	
<i>Amounts carried forward</i>	\$8,824 14	\$17,734 18

<i>Amounts brought forward</i>	\$8,824 14	\$17,734 18
Winchester Furniture Co., furniture	364 60	
Pond Desk Co., furniture	261 60	
Chandler Adjustable Chair and Desk Co., furniture	130 00	
Jarvis Engineering Co., furniture,	25 00	
P. Derby & Co., furniture	51 33	
George S. McCrillis, trustee, furniture	6 00	
George F. Roach & Co., furniture	5 00	
A. G. Whitcomb, ink wells	24 10	
Conant Bros. & Bragg Co., mirrors	7 50	
William Hall & Co., card plates,	1 80	
Samuel Barker, wall paper	13 90	
G. F. Ericson, repairing furniture	91 25	
T. A. Wellman, repairing furniture	6 00	
F. D. Snow, door checks	36 75	
Jacob Woodbury, iron work	3 05	
H. G. Collins, iron work	1 00	
I. L. Corthell, electric work	16 35	
G. M. D. Fernald, electric work,	9 10	
Page & Littlefield, mouldings	1 89	
George F. Hurn & Co., cleaning carpets	18 41	
William H. Brine, repairing furniture	6 50	
F. H. Flagg, repairs	1 50	
S. J. Wood, fitting keys, etc.	40 25	
Frederic R. Cutter, cleaning clocks, etc.	48 50	
Daniel Crocker, cleaning clocks, etc.	81 00	
<i>Amounts carried forward</i>	<hr/> \$10,076 52	<hr/> \$17,734 18

<i>Amounts brought forward</i>	\$10,076 52	\$17,734 18
Moulton C. Libby, cleaning clocks, etc.	47 00	
George F. Horton, cleaning clocks, etc.	22 55	
J. Q. Twombly, painting, glaz- ing, etc.	507 17	
J. A. Litchfield, soda . . .	75	
Charles E. Holske, agent, soap,	43 75	
A. F. Carpenter, soap . . .	1 68	
Portland Stoneware Co., pipe .	6 24	
Charlestown Gas Co., pipe .	4 50	
Boston Woven Hose & Rubber Co., hose	25 70	
Boston Spar Co., flag-staffs .	82 00	
J. W. Conners, fence . . .	15 00	
Samuel Rindge, granite step .	10 00	
American Sanitary Association, carbolic liquid	6 00	
Boston Germicide Co., service .	91 80	
Joseph Breck & Sons, seed . .	14 00	
Christopher Burke, sods . . .	132 50	
Y. M. C. Association, loam . .	12 43	
Timothy F. Crimmings, manure, etc.	43 10	
L. M. Maynard, manure, etc. .	9 05	
Heirs Charles Robinson, land on Tufts street	2,142 00	
Thomas Groom & Co., book . .	5 00	
Cambridge Gas Light Co., gas .	1 60	
Anthony Haderbolets, rent . .	256 00	
Jeremiah McCarthy, edgestones,	141 48	
R. M. Johnson, removing soil .	132 00	
A. B. Colesworthy, labor . . .	17 00	
Patrick O'Connell, labor . . .	112 37	
C. A. Southwick, labor . . .	38 25	
U. R. Lincoln, labor	12 50	
<i>Amounts carried forward</i> . .	\$14,009 94	\$17,734 18

<i>Amounts brought forward</i>	\$14,009 94	\$17,734 18
D. R. Spike, labor	5 50	
John O'Brien, labor	5 00	
N. L. Pennock, labor	5 00	
H. F. White, labor	20 00	
John White, labor	10 00	
Mrs. Saltmarsh, labor	7 20	
Mrs. Powell, labor	9 50	
Mrs. Fitzsimmonds, labor	9 00	
Mrs. Purcell, labor	6 40	
Catherine M. Porter, labor	50	
G. W. Prichard, teaming	49 50	
M. G. Staples, teaming	26 50	
Preston J. Gould, teaming	2 00	
A. M. Prescott, teaming	63 50	
H. A. Chick & Co., teaming	1 00	
E. R. Perham, expressing	21 50	
Woodbridge & Co., express- ing	14 50	
Martin O'Shaughnessy, express- ing	5 00	
Gilman's Express, expressing	75	
W. H. Laskey, expressing	30	
L. H. Brown, carriage hire	16 00	
Laborers, pay roll	16 13	
Dana W. Bennett & Co., premium of insurance	587 25	
I. B. Kendall, premium of insur- ance	342 00	
Arthur T. Hatch, premium of in- surance	250 25	
Smith & Robertson, premium of insurance	168 75	
Crane & Woods, premium of insurance	187 50	
Joseph J. Giles, premium of in- surance	80 25	
<i>Amounts carried forward</i>	\$15,920 72	\$17,734 18

<i>Amounts brought forward</i>	\$15,920 72	\$17,734 18
Hartford Steam Boiler Insurance Co., premium of insurance	50 00	
H. W. P. Colson, premium of insurance	9 00	
City of Somerville, taxes	14 00	
Highways account, labor	56 10	
Public Grounds account, grading,	567 12	
Watering Streets account, watering	84 39	
Sewers account, catch-basins	81 23	
Sewer Assessments account, sewers	210 41	
Sidewalk Assessments account, sidewalks	741 21	
	<hr/>	<u>\$17,734 18</u>

SCHOOLHOUSE IN WARD TWO.

CREDIT.

Balance from 1891	\$600 00
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DEBIT.

Cash, paid Dearborn Bros., balance of contract	<u>\$600 00</u>
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SCHOOLHOUSE IN WARD TWO, PROSPECT HILL DISTRICT.

CREDIT.

Balance from 1891	\$856 26
Highland Schoolhouse addition, amount transferred,	294 62
	<hr/>
	\$1,150 88

DEBIT.

Cash, paid Loring & Phipps, architects,	\$260 88
Balance to credit in account 1893,	890 00
	<hr/>
	<u>\$1,150 88</u>

SCHOOLHOUSE IN WARD THREE.

CREDIT.

Balance from 1891	\$773 87
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DEBIT.

Broadway Parkway, amount transferred	<u>\$773 87</u>
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SCHOOLHOUSE, EDGERLY ADDITION.

CREDIT.

Appropriations, amount appropriated by borrowing on funded debt account	\$20,000 00
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DEBIT.

Cash, paid George M. Starbird, on ac- count of contract	\$10,500 00	
Samuel D. Kelley, architect	400 00	
Smith Heating & Ventilating Co., on account of contract	298 50	
T. Harrington, labor	11 00	
H. F. White, labor	8 00	
	<u>\$11,217 50</u>	
Balance to credit in account 1893,	<u>8,782 50</u>	<u>\$20,000 00</u>

SCHOOLHOUSE, HIGHLAND ADDITION.

CREDIT.

Balance from 1891	\$318 03
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DEBIT.

Schoolhouse in Ward Two, Prospect Hill district, account, amount transferred	\$294 62	
Broadway Parkway account, amount transferred	<u>23 41</u>	<u>\$318 03</u>

SEMI-CENTENNIAL CELEBRATION.

CREDIT.

Interest, amount transferred	\$5,700 00
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DEBIT.

Cash, J. A. Litchfield, rent of halls	\$120 00
Charlestown Gas & Electric Co., lighting	4 40
Battery A, M. V. M., services	225 00
Boston & Maine R. R., transpor- tation	331 50
F. Abraham, refreshments	45 00
Silas D. Carter, refreshments	18 50
W. J. Esty, refreshments	50 00
Jackson Caldwell, refreshments, Willard C. Kinsley Post, 139, G. A. R., refreshments	50 00 99 80
Somerville Cycle Club, refresh- ments	200 00
Goldsmith, Silver, & Co., re- freshments	18 00
J. N. Wright, refreshments	10 50
Henry G. Swartz, catering	43 50
Jesse A. Dill, catering	982 00
M. R. Jones, catering	126 00
H. V. Pratt, use of chairs	109 77
Charles W. Allen, use of chairs, Masten & Wells Fireworks Mfg. Co., fireworks	90 85 500 00
Colonel William Beals, decora- tions	332 70
James Martin & Son, tent	159 25
Robert Miller & Co., tents	69 00
Gillis Brothers, carpenter work, George M. Starbird, carpenter work	415 00 47 04

<i>Amounts carried forward</i>	<u>\$4,047 81</u>	<u>\$5,700 00</u>
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<i>Amounts brought forward</i> .	\$4,047 81	\$5,700 00
N. Y. Brintnell & Co., use of horses	65 00	
Robert Duddy, equipments .	11 25	
Boston Regalia Co., regalia .	49 00	
Charles O. Eaton, regalia .	15 00	
Sons of Veterans, regalia .	10 00	
Arthur C. Gordan, signs . .	48 00	
Miller Brothers, medals . .	32 00	
Joseph E. Power, badges . .	40 80	
C. M. A. Twitchell, badges .	3 75	
John A. Lowell & Co., engrav- ing	84 50	
E. H. Studley, engrossing com- mission	10 00	
Freeman & Taylor, clock . .	12 00	
Somerville Journal Co., printing,	101 40	
Citizen Publishing Co., printing,	8 00	
M. W. Lombard, photographs .	6 60	
Charles W. Dailey, use of am- bulance	12 00	
George A. B. Stickney, medi- cines	2 00	
Pettingill & Pear, bedding . .	2 50	
Thomas Groom & Co., sta- tionery	8 00	
J. Stewart & Co., stationery .	7 75	
Belknap & Co., stamp . . .	1 50	
S. B. Kidder, typewriting . .	2 75	
M. E. Kazar, typewriting . .	3 85	
Ernest L. Newcomb, typewrit- ing	12 00	
H. M. Weld & Co., barges . .	226 00	
J. H. Thompson, carriage hire .	168 00	
James F. Ormand, carriage hire,	30 00	
Draper Hall Stable Co., carriage hire	10 00	
<i>Amounts carried forward</i> . .	\$5,031 46	\$5,700 00

<i>Amounts brought forward</i>	\$5,031 46	\$5,700 00
R. E. Blackwell, carriage hire	10 00	
Arthur Black, carriage hire	10 00	
Howard Lowell, carriage hire	15 00	
George McKenna, carriage hire,	14 00	
John Ducey, carriage hire	39 00	
L. H. Brown & Co., carriage hire,	45 00	
A. M. Prescott, teaming	25 20	
E. R. Perham, teaming	33 00	
Martin O'Shaughnessy, teaming,	2 00	
H. A. Chick & Co., teaming	1 00	
A. J. Sawyer, grain	3 58	
George E. Ricker, show cases	17 25	
Owen Ray, show cases	20 00	
Raymond, Griffin, & Co., show cases	11 10	
Albert E. Hughes, show cases	7 00	
Walter C. Mentzer, equipments,	110 00	
Henry W. Pitman, disburse- ments	53 75	
E. C. Booth, disbursements	4 50	
Charles D. Elliot, disburse- ments	3 40	
Frederic A. Chandler, carpenter- ing	27 12	
Fred S. Young, labor	19 00	
Joseph Young, labor	8 00	
William H. Whitcomb, labor	12 00	
A. L. Elliot, labor	7 75	
Benjamin Brown, labor	5 00	
	<hr/>	
	\$5,535 11	
Balance to credit in account 1893,	164 89	
	<hr/>	
		<u>\$5,700 00</u>

SEWERS.

CREDIT.

Appropriations, amount assessed		\$10,000 00
Amount appropriated by borrowing on funded debt account		8,000 00
Cash, received of Massachusetts Gen- eral Hospital, annual fee for permission to enter Fitchburg- street sewer	\$50 00	
True W. Townsend, fee for per- mission to enter Line-street sewer	67 08	
Charles F. Shourds, fee for per- mission to enter Elm-street sewer	81 00	
C. S. Philbrick, cost of sewer in Winslow avenue	175 00	
Suther Blaikie, cost of sewer in private way off Somerville ave- nue	109 12	
George D. Wildes and John Stackpole, cost of sewer in Melvin street	285 00	
S. F. Woodbridge, cost of sewer in White street	74 67	
Reuben P. Benton, cost of sewer in Cambria street	180 00	
Henry Glover, cost of sewer in Dover street	90 00	
West End Street Railway Co., changing manhole	14 82	
Sidewalks account, edgestones	94 33	
Public Grounds account, catch- basin	58 92	
Broadway Parkway account, catch-basin	58 53	
<i>Amounts carried forward</i>	<u>\$1,338 47</u>	<u>\$18,000 00</u>

<i>Amounts brought forward</i> .	\$1,338 47	\$18,000 00
Highways, paving Union square and parts of Somerville and Webster avenues, changing grade	10 44	
Schoolhouse Incidentals account, catch-basins	81 23	
John Foley, error in pay roll .	10 00	
Michael Howard, error in pay roll	10 00	
Andrew Foley, error in pay roll,	10 00	
	<hr/>	
	\$1,460 14	
Sewer Assessments, assessments levied	9,184 13	
	<hr/>	
		10,644 27
		<hr/>
		\$28,644 27

DEBIT.

Cash, paid laborers	\$5,387 90	
George D. Goodrich, drain pipe, Portland Stone Ware Co., drain pipe	1,034 26	
A. Parker, catch-basin stones .	509 73	
Barbour, Stockwell, & Co., traps,	706 25	
Osgood & Hart, covers, etc. .	87 50	
W. A. Sanborn, bricks	200 50	
Bay State Brick Co., bricks .	321 95	
Thomas Casey, bricks	203 45	
George M. Winslow & Co., cement	4 25	
Berry & Ferguson, cement .	166 10	
Horatio Wellington & Co., cement	29 50	
Jeremiah McCarthy, sand .	5 20	
Dennis C. Collins, sand	11 00	
George H. Goodwin, loam .	5 00	
	6 16	
	<hr/>	
<i>Amounts carried forward</i> .	\$8,678 75	\$28,644 27

<i>Amounts brought forward</i>	\$8,678 75	\$28,644 27
John F. Ayer, lumber	13 91	
F. C. Ayer, agent, lumber	26 01	
I. H. Brown & Co., lumber	7 86	
C. A. Slager, carpentering	8 26	
Whitney & Snow, hardware	52 14	
J. A. Durell, hardware	1 40	
Howe & Flint, hardware	7 50	
John Fisher, hardware	3 00	
William B. Holmes, lantern	50	
J. A. Manning & Co., rubber boots	40 50	
J. H. Jones, repairing rubber boots	3 45	
Charles L. Underhill, black-smithing	8 80	
A. M. Prescott, teaming	1,275 90	
Thomas Groom & Co., stationery,	63 75	
Robert Burlen, binding	9 00	
McDonnell Bros., advertising	36 90	
Somerville Journal Co., advertising	24 00	
Lennon & Co., rods	53 70	
Edson Manfg. Co., repairing hose	95	
David W. Lewis, grate	12 00	
John E. Capen, drilling	65 06	
Willard B. Bryne, blasting	23 40	
Charles A. Mongan, labor	10 00	
George I. Shedd, car fares	38 75	
Fred E. Jones, inspector	17 50	
L. H. Brown, carriage hire	3 00	
J. H. Thompson, carriage hire	13 50	
City of Boston, water	40 00	
City of Cambridge, five-ninths of expense cleaning Bridge-street sewer	1,217 47	
<i>Amounts carried forward</i>	\$11,756 96	\$28,644 27

<i>Amounts brought forward</i>	\$11,756 96	\$28,644 27
Willard B. Bryne, constructing sewer in Broadway	662 95	
Willard B. Bryne, constructing sewer in Caldwell place	188 10	
Willard B. Bryne, constructing sewer in Gilman terrace	402 19	
Willard B. Bryne, constructing sewer in Oliver street	55 44	
Willard B. Bryne, constructing sewer in Olive avenue	6 16	
Willard B. Bryne, constructing sewer in private way off Pinckney street	169 66	
Willard B. Bryne, constructing sewer in Willow avenue	2,465 27	
Christopher Burke, constructing sewer in Josephine avenue	351 88	
Dennis C. Collins and T. F. Crimmings, constructing sewer in Paulina street and Broadway	3,417 96	
Dennis C. Collins and T. F. Crimmings, constructing sewer in private way off Dover street,	5 89	
Dennis C. Collins and T. F. Crimmings, constructing sewer in private way off Somerville avenue	8 72	
Richard Falvey, constructing sewer in Heath street	2,102 06	
Richard Falvey, constructing sewer in Somerville avenue	797 62	
Richard Falvey, constructing sewer in Skehan street	126 53	
Richard Falvey, constructing sewer in Melvin street	21 18	
<i>Amounts carried forward</i>	\$22,538 57	\$28,644 27

<i>Amounts brought forward</i>	\$22,538 57	\$28,644 27
Richard Falvey, constructing sewer in Winslow avenue	9 69	
Charles A. Mongan, constructing sewer in Atherton street and Beach street	5 52	
Charles A. Mongan, constructing sewer in Browning road	364 13	
Charles A. Mongan, constructing sewer in Cambria street	12 37	
Charles A. Mongan, constructing sewer in Elm place	145 38	
Charles A. Mongan, constructing sewer in Harrison street	150 07	
Charles A. Mongan, constructing sewer in Harvard street	212 13	
Charles A. Mongan, constructing sewer in Walter street and place	521 62	
Charles A. Mongan, constructing sewer in White-street place	170 26	
Charles A. Mongan, constructing sewer in Summer street	71 89	
C. S. Philbrick, overpayment on sewer	12 21	
Reuben P. Benton, overpayment on sewer	15 08	
Henry Glover, overpayment on sewer	8 23	
Sewer Assessments, private sewers assessed and abatements made	1,300 87	
	<hr/>	
	\$25,538 02	
Balance to credit in account 1893,	3,106 25	
	<hr/>	
		<u>\$28,644 27</u>

SEWER ASSESSMENTS.

CREDIT.

Cash, received of sundry persons	\$12,212 70
Balance to debit in account 1893	5,143 96
	<hr/>
	\$17,356 66

DEBIT.

Balance from 1891	\$8,172 53
Sewers, assessments levied	9,184 13
	<hr/>
	\$17,356 66

SIDEWALKS.

CREDIT.

Appropriations, amount assessed	\$10,000 00
Cash, received of Patrick Nelson, proceeds of sale of Winchester gravel land	\$200 00
Highways account, sidewalks	406 02
Highways, paving Union square and parts of Somerville and Webster avenues, circle	11 52
	<hr/>
	617 54
Sidewalk assessments, assessments levied	10,219 04
Excess and Deficiency, balance to debit of account	43 99
	<hr/>
	\$20,880 57

DEBIT.

Cash, paid laborers	\$5,107 50
Jeremiah McCarthy, edgestones,	8,211 50
Sewers account, edgestones	94 33
Highways, paving Union square and parts of Somerville and Webster avenues, edgestones,	202 19
	<hr/>
<i>Amounts carried forward</i>	\$13,615 52
	<hr/>
	\$20,880 57

<i>Amounts brought forward</i>	\$13,615 52	\$20,880 57
John Thresher, bricks	2,286 40	
W. A. Sanborn, bricks	2,159 84	
The Porter Edmands Ice Co., sand	161 40	
A. Allen, sand	29 25	
Highways account, sand, etc.	2,045 15	
Somerville Journal Co., adver- tising	117 88	
Citizen Publishing Co., advertis- ing	66 00	
McDonnell Brothers, advertis- ing	80 12	
John F. Elkins, teaming	10 00	
George McKenna, teaming	25 00	
T. F. Crimmings, teaming	20 00	
Christopher Burke, teaming	50 00	
Frank Buttimer, teaming	25 00	
Thomas Allen, teaming	15 00	
John Ducey, teaming	20 00	
Henry Gray, teaming	20 00	
Owen Cunningham, teaming	10 00	
Martin Gill, teaming	5 00	
A. Parker, circles	79 77	
Walter Bates, concreting	39 24	
		<u>\$20,880 57</u>

SIDEWALK ASSESSMENTS.

CREDIT.

Cash, received of sundry persons assessments	\$8,233 47
Balance to debit in account 1893	5,571 00
	<u>\$13,804 47</u>

DEBIT.

Balance from 1891	\$3,585 43
Sidewalks, assessments levied	10,219 04
	<u>\$13,804 47</u>

STATE AID.

CREDIT.

State of Massachusetts, amount paid in 1892 charged to State	\$6,771 00
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DEBIT.

Cash, paid monthly pay rolls	<u>\$6,771 00</u>
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STATE OF MASSACHUSETTS.

CREDIT.

Appropriations, amount assessed	\$27,457 50
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DEBIT.

Cash, paid State Treasurer, State tax	<u>\$27,457 50</u>
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STATE OF MASSACHUSETTS, INDIGENT SOLDIERS AND SAILORS.

CREDIT.

Cash, received of State Treasurer	\$432 50
Balance, Dec. 31, 1892, due from State Dec. 10, 1893,	573 00
	<u>\$1,005 50</u>

DEBIT.

Balance from 1891	\$418 50
Indigent Soldiers and Sailors, one-half of amount paid in 1892	<u>587 00</u>
	<u>\$1,005 50</u>

STATE OF MASSACHUSETTS, BURIAL OF INDIGENT SOLDIERS AND SAILORS.

CREDIT.

Balance, Dec. 31, 1892, due from State Dec. 10, 1893,	\$175 00
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DEBIT.

Balance from 1891	\$87 50
Relief and Burial of Indigent Soldiers and Sailors, one-half of amount paid in 1892	<u>87 50</u>
	<u>\$175 00</u>

STATE OF MASSACHUSETTS, STATE AID.

CREDIT.

Cash, received of State Treasurer	\$5,581 50
Balance, Dec. 31, 1892, due from State Dec. 10, 1893,	6,669 50
	<hr/>
	\$12,251 00

DEBIT.

Balance from 1891	\$5,480 00
State Aid, amount paid in 1892	6,771 00
	<hr/>
	<u>\$12,251 00</u>

STATE OF MASSACHUSETTS, METROPOLITAN SEWER.

CREDIT.

Appropriations, amount assessed	\$3,136 02
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DEBIT.

Cash, paid State Treasurer, assessment of 1892	<u>\$3,136 02</u>
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STREET LIGHTS.

CREDIT.

Appropriations, amount assessed	\$27,000 00
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DEBIT.

Cash, paid Somerville Electric Light		
Co., lighting	\$26,327 15	
Wheeler Reflector Co., lighting,	42 90	
McDonnell Bros., advertising	5 40	
Citizen Publishing Co., adver-		
tising	4 75	
Somerville Journal Co., adver-		
tising	8 25	
	<hr/>	<hr/>
<i>Amounts carried forward</i>	\$26,388 45	\$27,000 00

<i>Amounts brought forward</i>	\$26,388 45	\$27,000 00
L. H. Brown, carriage hire	40 50	
Sturtevant Bros., carriage hire	6 00	
Martin O'Shaughnessy, moving lampposts	3 00	
Charlestown Gas & Electric Co., moving lampposts	6 00	
F. A. Chandler, moving lamp- posts	7 00	
Patrick O'Connell, moving lamp- posts	18 25	
M. G. Staples, moving lamp- posts	10 75	
C. A. Southwick, moving lamp- posts	4 50	
Charlestown Gas Co., labor	35 00	
Somerville Electric Light Co., mast arm	10 00	
	<hr/>	
	\$26,529 45	
Excess and Deficiency, balance to credit of account	470 55	
	<hr/>	
		\$27,000 00

SUNDRY PERSONS.

CREDIT.

Balance from 1891	\$162 60
Sundries, coupons not paid	415 00
	<hr/>
	\$577 60

DEBIT.

Cash, paid sundry persons amounts due them	\$127 50
Balance to credit in account 1893,	450 10
	<hr/>
	\$577 60

SUPPORT OF POOR.

CREDIT.

Appropriations, amount assessed \$14,000 00

Cash, received for support of paupers : —

Of State of Massachusetts	\$886 48
Of City of Boston	276 54
Of City of Cambridge	119 80
Of City of Gloucester	4 85
Of City of Lowell	28 00
Of City of New Bedford	61 73
Of City of Newburyport	2 00
Of City of Waltham	15 00
Of City of Woburn	23 75
Of Town of Arlington	2 00
Of Town of Lexington	72 00
Of Town of Milford	8 95
Of Town of Revere	70 75
Of Town of Sandwich	4 00
Of Town of Stoneham	52 32
Of State of Massachusetts, burial of State paupers	72 50
John C. Harris, aid furnished	169 92
Estate of Edward Riley, aid fur- nished	150 00
N. C. Woodman, aid furnished	200 00
T. W. Kaan, guardian, aid fur- nished	42 71
John McIntosh, aid furnished	25 56
J. A. Sawyer, admr., aid fur- nished	15 00
Walter E. Rowe, aid furnished	8 00
F. H. Mixon, aid furnished	6 00
Ann Morris, aid furnished	2 00
Thomas Garvin, land on South street	460 00

<i>Amounts carried forward</i>	<u>\$2,779 86</u>	<u>\$14,000 00</u>
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<i>Amounts brought forward</i> .	\$2,779 86	\$14,000 00
New Jersey City Insurance Com- pany, insurance on South- street property	300 00	
George Mulvey, money not called for	20 04	
	<hr/>	3,099 90
		<hr/>
		\$17,099 90

DEBIT.

Cash, paid for support of paupers :—

Commonwealth of Massachu- setts	\$910 16	
Massachusetts School for the Feeble-minded	587 27	
Worcester Lunatic Hospital .	2,152 31	
Worcester Insane Asylum .	963 47	
Westboro Insane Hospital .	679 72	
Taunton Lunatic Hospital .	163 07	
Danvers Lunatic Hospital .	1,351 83	
Northampton Lunatic Hospital,	106 32	
House of the Angel Guardian .	184 00	
Carney Hospital	157 14	
Children's Hospital . . .	36 00	
City of Boston	866 55	
City of Cambridge	31 17	
City of Chelsea	12 00	
City of Malden	157 42	
City of Salem	26 42	
City of Woburn	40 86	
Town of Chelmsford	141 31	
Town of Medford	436 51	
Town of Natick	4 12	
Town of Peabody	475 95	
Town of Raynham	104 00	
Town of Revere	108 64	
	<hr/>	
<i>Amounts carried forward</i> .	\$9,696 24	\$17,099 90

<i>Amounts brought forward</i>	\$9,696 24	\$17,099 90
Mary Burke, rent . . .	72 00	
Sarah Blake, rent . . .	45 00	
Julia Casey, rent . . .	48 00	
Ellen Driscoll, rent . . .	48 00	
E. H. Elliot, rent . . .	72 00	
Thomas Flemming, rent . . .	54 00	
Lydia H. Fisher, rent . . .	104 59	
Edward Foster, rent . . .	24 00	
Sarah Gill, rent . . .	72 00	
Charles Heath, rent . . .	22 50	
John McGonagle, rent . . .	72 00	
Bridget Maher, rent . . .	60 00	
Mary O'Hare, rent . . .	36 00	
Emily E. Rice, rent . . .	24 00	
Mary Schultz, rent . . .	60 00	
Maurice Terry, rent . . .	20 00	
A. E. Viles, executor, rent . . .	60 00	
William Waters, rent . . .	10 00	
James Ambrose, rent . . .	14 00	
Antoi A'costa, rent . . .	24 00	
Michael Conlan, rent . . .	72 00	
Morris Barry, board . . .	104 59	
George Clapp, board . . .	169 92	
Preston Cheney, board . . .	169 92	
Catherine Cronin, board . . .	96 00	
M. J. De Aviller, board . . .	10 00	
C. H. Dunbar, board . . .	156 86	
Philip Eberle, board . . .	120 00	
Catherine Earle, board . . .	27 75	
Mary Furnald, board . . .	6 00	
William A. Green, board . . .	2 75	
Margaret Guthroe, board . . .	5 00	
Charles Hutchinson, board . . .	52 28	
Ann Kelley, board . . .	104 59	
Joseph Lafferty, board . . .	54 29	
Mary Mahoney, board . . .	62 18	
<i>Amounts carried forward :</i>	<u>\$11,852 46</u>	<u>\$17,099 90</u>

<i>Amounts brought forward</i>	\$11,852 46	\$17,099 90
George Mulvey, board	20 04	
Hannah M. Mayo, board	169 91	
Kate McNerney, board	55 57	
Ellen M. O'Donnell, board	104 59	
Hannah Remick, board	32 85	
Datie G. Sawin, board	52 32	
J. L. Sanborn, board	7 00	
Lizzie Trainor, rent	14 87	
William S. Ward, groceries and provisions	272 00	
Sturtevant Bros., groceries and provisions	234 00	
Sawyer & Read, groceries and provisions	207 80	
Medford-street Market, groceries and provisions	111 00	
R. T. Burr, groceries and provisions	151 50	
N. E. Rand, groceries and provisions	85 50	
D. E. Watson, groceries and provisions	84 50	
Charles S. Butters, groceries and provisions	90 00	
A. F. Carpenter, groceries and provisions	67 50	
A. L. Knowles, groceries and provisions	47 00	
C. A. Small, groceries and provisions	36 00	
G. H. Hills & Co., groceries and provisions	47 86	
A. Munroe, groceries and provisions	72 00	
F. H. Turner & Co., groceries and provisions	19 44	
<i>Amounts carried forward</i>	<u>\$13,835 71</u>	<u>\$17,099 90</u>

<i>Amounts brought forward</i>	\$13,835 71	\$17,099 90
J. B. Eastman, groceries and provisions	16 00	
James Bartley, groceries and provisions	10 00	
W. P. Blanchard, groceries and provisions	8 00	
Henry Gray, milk	16 01	
Ellen Quirk, milk	2 52	
John W. Henessey, milk	2 38	
A. Fiske, crackers	18 72	
J. H. Brooks, dry goods	29 57	
James W. Brine, dry goods	5 50	
E. B. Bradshaw, dry goods	4 00	
Philip Eberle, boots and shoes	82 75	
J. H. Mongan, boots and shoes,	14 25	
W. J. Emerson, boots and shoes,	5 50	
F. W. Gilbert, boots and shoes	4 75	
Horatio Wellington & Co., fuel,	546 03	
Jennie H. Graham, nursing	45 00	
T. F. Poland, nursing	10 00	
A. E. Mann, services as undertaker	95 00	
William A. Flaherty, services as undertaker	70 00	
P. H. Rafferty, services as undertaker	45 00	
Horace D. Runey, services as undertaker	25 00	
John Ducey, services as undertaker	10 00	
Fred H. Mixon, stove	5 50	
Philip J. Fitzpatrick, repairs of furniture	11 00	
George W. Trefren, Jr., carpentering	106 44	
Somerville Journal Co., printing,	32 00	
<i>Amounts carried forward</i>	\$15,056 63	\$17,099 90

<i>Amounts brought forward</i> .	\$15,056 63	\$17,099 90
Aaron R. Gay, stationery .	26 61	
S. H. Libby, services as auctioneer	23 74	
Howard Lowell, carriage hire .	29 00	
L. H. Brown, carriage hire .	28 00	
Brown & Smith, carriage hire .	3 50	
Charles L. Viles, carriage hire .	7 50	
C. C. Folsom, salary as agent .	1,500 00	
C. C. Folsom, salary as secretary	20 84	
C. C. Folsom, disbursements .	76 32	
Frank W. Kaan, salary as secretary	229 16	
William D. Hayden, services .	14 00	
	<hr/>	
	\$17,015 30	
Excess and Deficiency, balance to credit of account . . .	84 60	
	<hr/>	
		<u>\$17,099 90</u>

TAXES.

CREDIT.

Cash, received for taxes in 1886 . .	\$42 00	
“ “ “ “ 1887 . .	66 96	
“ “ “ “ 1888 . .	136 80	
“ “ “ “ 1889 . .	378 60	
“ “ “ “ 1890 . .	29,502 30	
“ “ “ “ 1891 . .	109,551 70	
“ “ “ “ 1892 . .	459,075 00	
	<hr/>	
		\$598,753 36

Overlay and Abatement:—

Abatements on taxes in 1886 . .	\$4,790 90	
“ “ “ “ 1887 . .	4,990 40	
“ “ “ “ 1888 . .	4,645 10	
	<hr/>	
<i>Amounts carried forward</i> . .	\$14,426 40	<u>\$598,753 36</u>

<i>Amounts brought forward</i>	.	\$14,426 40	\$598,753 36
Abatements on taxes in 1889	.	5,796 10	
“ “ “ “ 1890	.	344 00	
“ “ “ “ 1891	.	1,529 10	
“ “ “ “ 1892	.	1,932 00	
		<hr/>	24,027 60
Balance to debit in account 1893:—	.		
Being uncollected taxes of 1889	.	\$157 20	
“ “ “ “ 1890	.	13,204 20	
“ “ “ “ 1891	.	30,691 90	
“ “ “ “ 1892	.	135,350 50	
		<hr/>	179,403 80
			<hr/>
	DEBIT.		\$802,184 76
Balance from 1891	.	\$205,827 26	
Appropriations, amounts assessed for			
current expenses	.	512,835 00	
State of Massachusetts, amount			
assessed for State tax	.	27,457 50	
State of Massachusetts, amount			
assessed for Metropolitan			
sewer	.	3,136 02	
County of Middlesex, amount			
assessed for county tax	.	30,657 03	
Overlay and Abatement, amount			
added by the assessors	.	22,271 95	
		<hr/>	\$802,184 76
			<hr/>

TEMPORARY LOANS.

	CREDIT.	
Balance from 1891	.	\$238,000 00
Cash, borrowed by authority of the City Council on		
city notes, as follows, viz.:—		
Blake Brothers & Co., on seven		
months at 3½ per cent.	.	\$225,000 00
Commonwealth of Massachu-		
setts, on four months, at 3½		
per cent.	.	50,000 00
		<hr/>
<i>Amounts carried forward</i>	.	\$275,000 00
		<hr/>
		\$238,000 00

<i>Amounts brought forward</i>	\$275,000 00	\$238,000 00
Blake Brothers & Co., on twelve months, at 4 per cent.	78,000 00	
Commonwealth of Massachusetts, on six months, at 4 per cent.	40,000 00	
Commonwealth of Massachusetts, on six months, at 4½ per cent.	60,000 00	
	<hr/>	453,000 00
	DEBIT.	\$691,000 00

Cash, paid as follows:—

Somerville Hospital, note dated April 13, 1891	\$13,000 00	
Nellie A. Hutchins, guardian, note dated April 13, 1891	10,000 00	
Nellie A. Hutchins, guardian, note dated April 17, 1891	15,000 00	
Nellie A. Hutchins, guardian, note dated Dec. 1, 1891	30,000 00	
Commonwealth of Massachusetts, note dated Sept. 30, 1891	50,000 00	
Commonwealth of Massachusetts, note dated Nov. 23, 1891	100,000 00	
Brewster, Cobb, & Estabrook, note dated Dec. 1, 1891	20,000 00	
Blake Brothers & Co., notes dated March 30, 1892	225,000 00	
Balance to credit in account 1893,	228,000 00	
	<hr/>	\$691,000 00

WATERING STREETS.

	CREDIT.	
Appropriations, amount assessed		\$5,000 00
Interest account, transferred		200 00
		<hr/>
<i>Amount carried forward</i>		\$5,200 00

<i>Amount brought forward</i>		\$5,200 00
Cash, received of abutters	\$7,829 37	
Public Grounds account, watering	71 01	
Schoolhouse Incidentals account, watering	84 39	
	<hr/>	7,984 77
		<hr/>
		\$13,184 77

DEBIT.

Cash, paid N. C. Barker, overseeing	\$430 00
Christopher Burke, watering	369 00
G. W. Cummings, watering	460 35
Owen Cunningham, watering	442 35
John Ducey, watering	389 03
J. F. Elkins, watering	378 00
Richard Falvey, watering	425 25
Martin Gill, watering	453 60
Henry Gray, watering	415 80
George McKenna, watering	439 20
Henry McAvoy, watering	455 40
Jeremiah McCarthy, watering	383 86
Philip McGovern, watering	393 98
A. M. Prescott, watering	532 58
George W. Prichard, watering	382 50
T. F. Reardon, watering	365 85
M. G. Staples, watering	403 20
J. L. & H. K. Potter, watering carts	1,015 00
Seward Dodge, repairing carts	98 90
L. A. Wright, repairing carts	42 25
F. H. Flagg, repairing carts	19 00
Charles W. Ingalls, repairing carts	4 50
F. Dooris, repairing carts	2 50
W. N. McCrillis, painting carts,	102 00
Fred C. Fuller, building shed	473 10

<i>Amounts carried forward</i>	\$8,877 20	\$13,184 77
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<i>Amounts brought forward</i> .	\$8,877 20	\$13,184 77
Charles H. Tufts, painting shed,	40 00	
Boston Woven Hose & Rubber		
Co., hose	25 30	
W. E. Plumer & Co., rope .	37	
Thomas Groom & Co., book .	60	
Somerville Journal Co., printing,	15 25	
Smith & Robertson, premium of		
insurance	105 00	
City of Boston, water . . .	3,539 84	
Howard Lowell, carriage hire .	6 00	
Highways account, paving .	218 50	
	<hr/>	
	\$12,828 06	
Excess and Deficiency, balance		
to credit of account . . .	356 71	
	<hr/>	
		<u>\$13,184 77</u>

WATER LOAN INTEREST.

CREDIT.

Balance from 1891	\$5,150 80
Cash, received from City of Boston, water rates .	17,640 91
	<hr/>
	\$22,791 71

DEBIT.

Cash, paid on water loan debt:—

\$10,000, one year at 5½ per	
cent.	\$550 00
\$116,500, one year at 5 per cent.,	5,825 00
\$238,000, one year at 4 per cent.,	9,520 00
	<hr/>
	\$15,895 00
Less coupons unpaid . . .	315 00
	<hr/>
	\$15,580 00
	<hr/>
<i>Amounts carried forward</i> . .	\$15,580 00

\$22,791 71

<i>Amounts brought forward</i> .	\$15,580 00	\$22,791 71
Sundry persons, coupons unpaid,	315 00	
	<hr/>	
	\$15,895 00	
Reduction of Funded Debt,		
amount transferred . . .	6,896 71	
	<hr/>	
		<u>\$22,791 71</u>

WATER MAINTENANCE.

CREDIT.

Balance from 1891	\$599 58	
City of Boston water rates, amount appropriated	20,000 00	
Water-works Extension, amount trans- ferred	9,000 00	
	<hr/>	\$29,599 58
Water Services, transferred	\$760 14	
Cash, received of North Packing & Provision Co., pipe, fittings, and labor	274 69	
John P. Squire & Co., pipe, fit- tings, and labor	460 72	
New England Dressed Meat & Wool Co., labor, teaming, etc.,	557 64	
Somerville Iron Foundry Co., old iron	54 50	
S. B. Locke & Co., old iron . . .	42 53	
Town of Winchester, clamps . .	9 00	
Charles Harrington, pipe . . .	3 00	
L. W. Dow, manure	12 00	
	<hr/>	2,174 22
		<hr/>
		\$31,773 80

DEBIT.

Cash, paid laborers	\$20,752 83	
Nathaniel Dennett, salary as superintendent	1,500 00	
	<hr/>	
<i>Amounts carried forward</i> . . .	\$22,252 83	\$31,773 80

<i>Amounts brought forward</i>	\$22,252 83	\$31,773 80
Disbursements	107 69	
Frank E. Merrill, salary as clerk	900 00	
Disbursements	10 00	
S. E. Hayden, salary as engineer,	1,100 00	
Fulton O'Brion, grain	257 92	
A. M. Prescott, grain	79 98	
E. B. Vreeland, grain	62 50	
Seward Dodge, blacksmithing	225 86	
F. Dooris, blacksmithing	67 25	
H. G. Collins, blacksmithing	10 30	
Charles Maguire, blacksmithing,	54 88	
E. Spalding, harness work	52 27	
Hill & Langtry, harness work	34 75	
Whitney & Snow, hardware	166 04	
W. E. Plumer, hardware	16 04	
Richard Dowd, hardware	36 85	
Howe & Flint, hardware	1 50	
Charles A. Holmes, hardware	8 22	
W. I. Heald, hardware	1 35	
Miller & Shaw, machine work	110 16	
Jaques Brothers, pattern work,	342 06	
Osgood & Hart, castings	196 09	
Somerville Iron Foundry, castings	11 14	
Cunningham Iron Works, castings	1 20	
Chapman Valve Manfg. Co., fittings	1 44	
Henry R. Worthington, valves	25 84	
Boston Bolt Co., bolts	37 50	
Sewall & Day Cordage Co., packing	8 39	
Boston Lead Manfg. Co., lead	284 93	
George D. Goodrich, pipe	11 81	
Andrew J. Morse & Son, hose	38 48	
<i>Amounts carried forward</i>	\$26,515 27	\$31,773 80

<i>Amounts brought forward</i>	\$26,515 27	\$31,773 80
A. J. Wilkinson & Co., tools	26 10	
Perrin, Seamans, & Co., tools	143 92	
Walworth Manfg. Co., tools	66 36	
John B. Safford, tools	12 00	
J. Baker & Co., tools	9 00	
R. K. Carpenter, tools	5 00	
Harry Hunt, tools	6 00	
J. M. Ellis, mason work	45 00	
John R. Thompson, carpenter- ing	39 98	
George W. Trefren, Jr., carpen- tering	1 05	
Fred Davis, whitewashing	2 00	
James F. Davlin, plumbing	61 04	
J. E. Parsons, plumbing	27 00	
H. W. Covell, plumbing	21 57	
Young & Maynard, plumbing	6 72	
J. B. Dupont, plumbing	5 58	
L. C. Seavey, slating	5 04	
H. H. Harvey, steel	3 50	
Warren B. Plympton, polish	2 15	
Robert Bishop, waste	15 73	
Star Brass Manfg. Co., gauge glasses	5 52	
Curtis Regulator Co., regulator,	135 00	
Union Gas Co., globes	12 25	
Samuel Walker Oil Co., oil	31 02	
William F. Low, oil	34 66	
Alden Spear's Sons & Co., oil	1 50	
Waldo Brothers, cement	96 85	
Berry & Ferguson, cement	1 12	
T. F. Reardon, barrels	3 00	
S. W. Fuller, lumber	148 75	
John S. Rice & Co., copper pan,	2 00	
A. W. Russell, brush	3 00	
D. H. Smith & Son, canvas	6 40	
<i>Amounts carried forward</i>	\$27,501 08	\$31,773 80

<i>Amounts brought forward</i>	\$27,501 08	\$31,773 80
Robert Miller & Co., awnings	8 00	
H. W. Johns Manfg. Co., asbestos	11 06	
Olney Brothers, oil	28 32	
D. J. Bennett, repairs on wagons,	54 40	
D. H. Brown, repairs on wagons,	30 05	
D. W. Crocker, repairs on wagons	34 50	
F. H. Flagg, repairs on wagons,	4 00	
Boston Belting Co., packing	14 45	
Boston Woven Hose & Rubber Co., packing	2 43	
Edson Manfg. Co., pump	17 40	
J. B. Clisby, painting pump	30 00	
P. Fred King, painting stand-pipe	127 38	
Charles F. Pond, painting hydrants	72 75	
P. J. Faunce, painting buggy	8 00	
J. Q. Twombly, glazing	16 60	
Henry K. Barnes, leather	2 55	
Chelmsford Foundry Co., manager	3 00	
Horatio Wellington & Co., fuel	623 78	
B. F. Wild & Co., fuel	218 26	
J. J. Underhill, fuel	5 00	
J. McCarthy's Sons, charcoal	2 65	
John McCarthy, charcoal	5 50	
H. C. Dodge, brush wood	5 00	
George C. Emerson, wood	6 80	
Charles Booth, wood	50	
Fresh Pond Ice Co., ice	7 15	
Somerville Electric Light Co., lighting	38 53	
Cambridge Gas Light Co., gas	61 36	
City of Boston, water	23 80	
<i>Amounts carried forward</i>	\$28,964 30	\$31,773 80

<i>Amounts brought forward</i>	\$28,964 30	\$31,773 80
New England Telephone & Telegraph Co., rentals and tolls	263 30	
Daniel Hoar, Jr., teaming	531 00	
Owen Cunningham, teaming	22 50	
George W. Prichard, teaming	187 50	
John F. Elkins, teaming	220 00	
T. F. Crimmings, teaming	67 50	
Charles Faulkner, teaming	34 25	
Somerville Journal Co., printing,	11 00	
Citizen Publishing Co., printing,	9 00	
F. W. Barry, Beale, & Co., stationery	9 55	
Cutter, Tower, & Co., stationery,	1 50	
Thomas Groom & Co., stationery,	68 53	
W. A. Greenough & Co., directory	2 00	
Sampson, Murdock, & Co., directory	5 00	
Fitchburg Railroad Co., labor	41 00	
W. B. Bryne, labor	3 00	
J. W. Cook, use of horse	9 00	
J. H. Brooks, dry goods	6 79	
Philip Eberle, boots	3 00	
G. W. Ladd, bags	60	
William H. Brine, cot	5 75	
Thomas Hollis, sponges	2 00	
Jackson Caldwell & Co., repairing chairs	1 65	
S. J. Wood, keys, etc.	4 75	
Martin Gill, plowing	10 00	
Charles R. Simpson, veterinary services	2 00	
Smith Premier Type Writer Co., typewriter	100 00	
Barker & Tibbetts Express, expressing	55	
<i>Amounts carried forward</i>	\$30,587 02	\$31,773 80

<i>Amounts brought forward</i>	\$30,587 02	\$31,773 80
E. R. Perham, expressing	1 05	
Charles E. Farnham, expressing,	1 05	
Thorpe's Express, expressing	15	
William S. Ward, compensation for damages	3 70	
James Bartley, meal	16 90	
Crane & Woods, premium of in- surance	80 00	
	<hr/>	
	\$30,689 87	
Balance to credit in account 1893,	1,083 93	
	<hr/>	
		<u>\$31,773 80</u>

WATER SERVICES.

CREDIT.

Cash, received of William H. Ralph, pipe, fittings, etc.	\$31 60
L. R. Mace, pipe, fittings, etc.	20 00
James Barrett, pipe, fittings, etc.,	17 70
E. R. Christopher, pipe, fittings, etc.	18 60
McGovern & Kitch, pipe, fittings, etc.	15 95
Commonwealth of Massachu- setts, pipe, fittings, etc.	39 40
J. W. McDonald, pipe, fittings, etc.	18 00
William H. Bancroft, pipe, fit- tings, etc.	16 80
Wilbur P. Rice, pipe, fittings, etc.	3 30
Benjamin Hadley, pipe, fittings, etc.	6 00
J. A. Durell, pipe, fittings, etc.	1 00
	<hr/>
<i>Amount carried forward</i>	\$188 35

<i>Amount brought forward</i>	\$188 35
McLean Asylum, pipe, fittings, etc.	53 20
F. G. Hawes, pipe, fittings, etc.,	16 10
David A. Sanborn, pipe, fittings, etc.	28 05
D. W. Gage, pipe, fittings, etc.	13 15
N. H. Reed, pipe, fittings, etc.	11 20
R. H. Sturtevant, pipe, fittings, etc.	17 15
Thaddeus Maloy, pipe, fittings, etc.	13 75
D. Deaddy, pipe, fittings, etc.	36 50
	<hr/>
	\$377 45

Water Service Assessments, cost of services laid	10,177 55
---	-----------

\$10,555.00

DEBIT.

Cash, paid laborers	\$4,714 65
Sumner & Goodwin, fittings	1,159 63
Perrin, Seamans, & Co., fittings,	1,591 22
George K. Paul & Co., fittings	377 48
Fred H. Holton & Co., fittings,	53 17
Boston Lead Manfg. Co., pipe	297 47
New England Water Pipe Co., pipe	29 69
Boston Bolt Co., castings	33 44
Somerville Iron Foundry, ser- vice boxes	951 44
Boston Belting Co., washers	15 75
Boston Woven Hose & Rubber Co., washers	7 28
Chapman Valve Mfg. Co., gates,	40 79
Walworth Manfg. Co., tools	40 96
Andrew J. Morse & Son, tools	1 25
Waldo Brothers, cement	50 00
Stoughton Rubber Co., mitts	10 12
	<hr/>
<i>Amounts carried forward</i>	\$9,374 34

\$10,555 00

<i>Amounts brought forward</i> .	\$9,374 34	\$10,555 00
Charles L. Underhill, repairing wagon	37 35	
Charles Maguire, blacksmithing,	6 50	
Fulton O'Brion, grain	135 06	
G. W. Ladd, grain	22 50	
Frank Hall, horse	100 00	
Bradley, Hastings, & Co., shade,	5 00	
Somerville Journal Co., printing,	3 50	
Globe Gas Light Co., torch	4 45	
H. W. Covell & Co., plumbing	11 56	
J. E. Parsons, plumbing	9 50	
Philip Eberle, boots	10 00	
Mary Harrington, abatement of water service assessment	17 20	
Charles A. Pratt, abatement of water service assessment	27 10	
Hudson & Lewis, abatement of water service assessment	30 80	
	<hr/>	
	\$9,794 86	
Water Maintenance, balance transferred	760 14	
	<hr/>	
		<u>\$10,555 00</u>

WATER SERVICE ASSESSMENTS.

CREDIT.

Cash, received of sundry persons, water services	\$11,094 50
Balance to debit in account 1893	1,722 00
	<hr/>
	\$12,816 50

DEBIT.

Balance from 1891	\$2,638 95
Water Services, service pipes laid in 1893	10,177 55
	<hr/>
	<u>\$12,816 50</u>

WATER-WORKS EXTENSION.

CREDIT.

Balance from 1891	\$4,423 41	
City of Boston water rates, amount ap- propriated	40,000 00	
	<hr/>	\$44,423 41
Cash, received of N. E. Dressed Meat & Wool Co., pipe, fittings, etc.,	\$1,412 30	
North Packing & Provision Co., pipe, fittings, etc.	69 40	
John P. Squire & Co., pipe, fit- tings, etc.	779 77	
	<hr/>	2,261 47
		<hr/>
		\$46,684 88

DEBIT.

Cash, paid laborers	\$4,589 24	
Boston Lead Manfg. Co., lead . .	2,750 80	
Davis & Farnum Manfg. Co., pipe, fittings, etc.	2,659 62	
Peet Valve Company, valves, etc.,	1,904 80	
Somerville Iron Foundry, cast- ings	524 73	
Osgood & Hart, castings	968 08	
Boston Bolt Co., castings	7 56	
Holyoke Hydrant & Iron Works, hydrants, etc.	2,086 33	
The Pratt & Cady Co., hydrants, etc.	238 00	
Walworth Manfg. Co., gates, etc.,	602 30	
Chapman Valve Manfg. Co., valves, etc.	431 51	
Donaldson Iron Co., pipe	18,678 14	
McNeal Pipe & Foundry Co., pipe	965 94	
George K. Paul & Co., pipe	110 21	
	<hr/>	
<i>Amounts carried forward . . .</i>	\$36,517 26	\$46,684 88

<i>Amounts brought forward</i>	\$36,517 26	\$46,684 188
Perrin, Seamans, & Co., packing,	22 43	
Sewall & Day Cordage Co., pack-		
ing	3 60	
Charles Maguire, horseshoeing .	8 25	
Edward O'Brien, horseshoeing .	7 00	
Seward Dodge, blacksmithing .	30 35	
F. Dooris, blacksmithing . . .	20 30	
F. W. Leavitt, blacksmithing .	62 25	
Nathan Tufts & Sons, grain .	22 50	
A. M. Prescott, grain	17 20	
Boston & Maine Railroad, labor,	16 00	
Daniel Hoar, Jr., teaming .	144 00	
George F. McKenna, teaming .	53 00	
Charles Faulkner, caravan and		
teaming	136 00	
George A. Richards, teaming .	12 00	
George W. Prichard, teaming .	10 00	
T. F. Crimmings, teaming .	37 50	
Richard Falvey, teaming . . .	5 00	
	<hr/>	
	\$37,124 64	
Water Maintenance, amount		
transferred	9,000 00	
Balance to credit in account 1893,	560 24	
	<hr/>	
		\$46,684 188

TABLE D.

BALANCES DECEMBER 31, 1892.

Cash	\$39,653 03	
City Loan Bonds	53,000 00	
Public Library	335 44	
Public Property	1,752,351 58	
Real-Estate Liens	888 40	
Sewer Assessments	5,143 96	
Sidewalk Assessments	5,571 00	
State of Massachusetts, Indigent Soldiers and Sailors	573 00	
State of Massachusetts, Burial of Indigent Soldiers and Sailors,	175 00	
State of Massachusetts, State Aid	6,669 50	
Taxes	179,403 80	
Water Service Assessments	1,722 00	
Funded Debt		\$1,194,500 00
Highways, paving Union square and parts of Somerville and Webster avenues		4,102 09
Nathan Tufts Park		3,408 55
Overlay and Abatement		2,402 74
Overplus on Tax Sales		102 13
Property and Debt Balance		557,851 58
Reduction of Funded Debt		40,081 71
Schoolhouse in Ward Two, Prospect Hill District		890 00
Schoolhouse, Edgerly Addition, Semi-Centennial Celebration		8,782 50
		164 89
Sewers		3,106 25
Sundry Persons		450 10
Temporary Loans		228,000 00
Water Maintenance		1,083 93
Water-works Extension		560 24
	<u>\$2,045,486 71</u>	<u>\$2,045,486 71</u>

REPORT
OF THE
SCHOOL COMMITTEE.

CITY OF SOMERVILLE.

IN BOARD OF ALDERMEN, March 22, 1893.

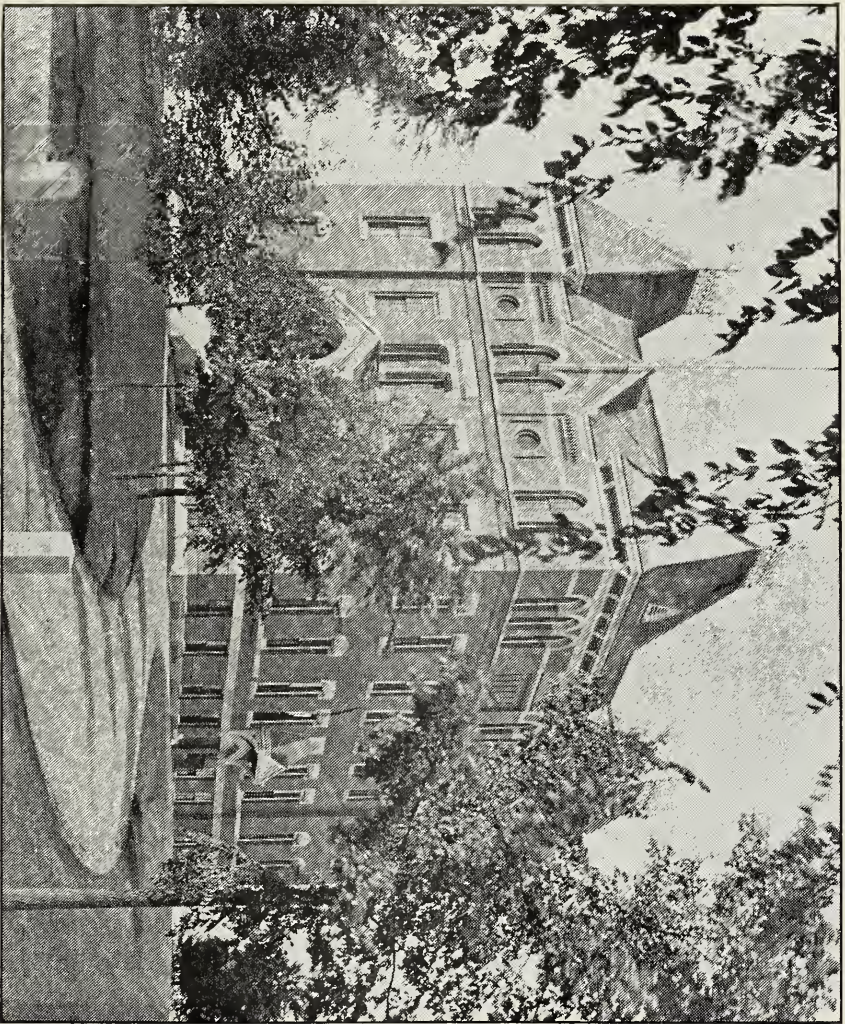
Referred to the committee on printing, to be printed in the annual reports.
Sent down for concurrence.

GEORGE I. VINCENT, *Clerk.*

IN COMMON COUNCIL, March 15, 1893.

Referred to the committee on printing, to be printed in the annual reports,
in concurrence.

CHARLES S. ROBERTSON, *Clerk.*



HIGH SCHOOL.

SCHOOL COMMITTEE, 1892.

HON. WILLIAM H. HODGKINS, Mayor, Chairman, *ex officio*.
ISAIAH H. WILEY, President of the Common Council, *ex officio*.

MEMBERS.

WARD ONE.

HORACE C. WHITE, M. D., 149 Perkins Street . . .	Term expires 1892.
SANFORD HANSCOM, M. D., 1 Webster Street . . .	" " 1893.
S. NEWTON CUTLER, 28 Flint Street . . .	" " 1894.

WARD TWO.

JAMES F. BEARD, 17 Prospect Hill Avenue . . .	Term expires 1892.
THOMAS M. DURELL, M. D., 23 Bow Street . . .	" " 1893.
ALVAH B. DEARBORN, M. D., 34 Bow Street . . .	" " 1894.

WARD THREE.

Q. E. DICKERMAN, 85 Central Street . . .	Term expires 1892.
HELEN J. SANBORN, 383 Broadway . . .	" " 1893.
NORMAN W. BINGHAM, 235 School Street . . .	" " 1894.

WARD FOUR.

GILES W. BRYANT, M. D., 396 Highland Avenue . . .	Term expires 1892.
MARTIN W. CARR, 74 Craigie Street . . .	" " 1893.
PROF. BENJAMIN G. BROWN, 38 Professors' Row . . .	" " 1894.

C. E. MELENEY, Superintendent and Secretary, 40 Greenville Street.
Office, 4 Walnut Street. Office hours from 4 to 5 P. M., each day that the schools are in session.

STANDING COMMITTEES, 1892.

High School. — MESSRS. DICKERMAN, BEARD, DURELL, WHITE, CUTLER, CARR, BROWN, BINGHAM.

Schools in East Somerville District. — MESSRS. HANSCOM, WHITE, WILEY, CUTLER.

Schools in Prospect Hill District. — MESSRS. DURELL, BEARD, DEARBORN.

Schools in Winter Hill District. — MISS SANBORN, MR. BINGHAM, MAYOR HODGKINS, MR. DICKERMAN.

Schools in Spring Hill District. — MESSRS. CARR, BRYANT, BROWN.

Schools in West Somerville District. — MESSRS. BRYANT, BROWN, CARR.

Rules and Regulations. — MESSRS. BRYANT, DICKERMAN, CUTLER.

Finance. — MESSRS. CARR, HANSCOM, WILEY, BEARD.

Additional School Accommodations. — MAYOR HODGKINS, MESSRS. HANSCOM, DURELL, MISS SANBORN, MR. CARR.

Repairs. — MESSRS. WHITE, BRYANT, BINGHAM, BEARD.

Supplies. — MESSRS. BINGHAM, CARR, DURELL, WHITE.

Text-Books. — MESSRS. HANSCOM, CARR, MISS SANBORN, MESSRS. WHITE, DURELL, BEARD, DICKERMAN.

Industrial Education. — MR. BEARD, MISS SANBORN, MESSRS. CARR, CUTLER, DICKERMAN.

Music. — MISS SANBORN, MESSRS. HANSCOM, CARR, DEARBORN.

Examination of Teachers. — MESSRS. BROWN, DICKERMAN, HANSCOM.

Salaries. — MESSRS. CUTLER, BINGHAM, DEARBORN, BROWN.

Evening Schools. — MESSRS. DURELL, DICKERMAN, HANSCOM, CARR.

Examination of Ninth Class. — MESSRS. DICKERMAN, BEARD.

Examination of Eighth Class. — MESSRS. WHITE, CARR.

Examination of Seventh Class. — MR. CUTLER, MISS SANBORN.

Examination of Sixth Class. — MESSRS. DURELL, DICKERMAN.

Examination of Fifth Class. — MESSRS. BINGHAM, BROWN.

Examination of Fourth Class. — MESSRS. DEARBORN, HANSCOM, BRYANT.

Private Schools. — MESSRS. DEARBORN, BRYANT, WILEY.

SCHOOL COMMITTEE, 1893.

HON. WILLIAM H. HODGKINS, Mayor, Chairman, *ex officio*.
FRED W. GILBERT, President of the Common Council, *ex officio*.

MEMBERS.

WARD ONE.

	January.
SANFORD HANSCOM, M. D., 1 Webster Street . . .	Term expires 1894.
S. NEWTON CUTLER, 28 Flint Street . . .	" " 1895.
GEORGE S. POOLE, 46 Mt. Vernon Street . . .	" " 1896.

WARD TWO.

THOMAS M. DURELL, M. D., 23 Bow Street . . .	Term expires 1894.
ALVAH B. DEARBORN, M. D., 34 Bow Street . . .	" " 1895.
HERBERT A. CHAPIN, 10 Putnam Street . . .	" " 1896.

WARD THREE.

HELEN J. SANBORN, 383 Broadway . . .	Term expires 1894.
NORMAN W. BINGHAM, 235 School Street . . .	" " 1895.
Q. E. DICKERMAN, 85 Central Street . . .	" " 1896.

WARD FOUR.

MARTIN W. CARR, 74 Craigie Street . . .	Term expires 1894.
PROF. BENJAMIN G. BROWN, 38 Professors' Row . . .	" " 1895.
GILES W. BRYANT, M. D., 396 Highland Avenue . . .	" " 1896.

CLARENCE E. MELENEY, Superintendent and Secretary, 40 Greenville Street.

Office, 4 Walnut Street. Office hours from 4 to 5 P. M., each day that the schools are in session.

STANDING COMMITTEES, 1893.

High School. — MESSRS. CUTLER, BROWN, CARR, DURELL, BINGHAM, DEARBORN, HANSCOM, DICKERMAN.

Schools in East Somerville District. — MESSRS. CUTLER, POOLE, HANSCOM.

Schools in Prospect Hill District. — MESSRS. DEARBORN, CHAPIN, DURELL, GILBERT.

Schools in Winter Hill District. — MESSRS. BINGHAM, DICKERMAN, MAYOR HODGKINS, MISS SANBORN.

Schools in Spring Hill District. — MESSRS. CARR, BRYANT, BROWN.

Schools in West Somerville District. — MESSRS. BROWN, BRYANT, CARR.

Rules and Regulations. — MESSRS. DICKERMAN, CUTLER, BRYANT.

Finance. — MESSRS. CARR, POOLE, GILBERT, CHAPIN.

Additional School Accommodations. — MAYOR HODGKINS, MESSRS. CUTLER, DEARBORN, BINGHAM, CARR.

Repairs. — MESSRS. BRYANT, BINGHAM, POOLE, CHAPIN.

Supplies. — MESSRS. DURELL, POOLE, BRYANT, BINGHAM.

Text-Books. — PROFESSOR BROWN, MISS SANBORN, MESSRS. DURELL, CUTLER, DEARBORN, DICKERMAN, HANSCOM.

Industrial Education. — MISS SANBORN, MESSRS. CARR, CUTLER, DICKERMAN, CHAPIN.

Music. — MESSRS. HANSCOM, BRYANT, DEARBORN, MISS SANBORN.

Examination of Teachers. — MESSRS. DEARBORN, DICKERMAN, BROWN.

Salaries. — MESSRS. BINGHAM, DURELL, BROWN, CUTLER.

Evening Schools. — MESSRS. HANSCOM, DICKERMAN, BRYANT, DURELL.

Examination of Ninth Class. — MESSRS. POOLE, BROWN.

Examination of Eighth Class. — MISS SANBORN, MR. CUTLER.

Examination of Seventh Class. — MESSRS. DICKERMAN, DURELL.

Examination of Sixth Class. — MESSRS. BROWN, BINGHAM.

Examination of Fifth Class. — MESSRS. DEARBORN, BRYANT.

Examination of Fourth Class. — MESSRS. CHAPIN, DICKERMAN.

Private Schools. — MESSRS. CHAPIN, BRYANT, GILBERT.

SUPERINTENDENT'S REPORT.

To the School Committee of the City of Somerville:—

LADIES AND GENTLEMEN,—A report of the public schools for the year 1892 is herewith respectfully submitted, it being the twenty-first annual report of the superintendent of schools of this city.

Summary of statistics:—

Population of the city, United States census, 1890	40,117
Number of persons in the city between five and fifteen years of age in May last	7,191
	Increase within year.
East Somerville District	1,358 100
Prospect Hill District	2,665 62
Winter Hill District	1,127 111
Spring Hill District	1,083 47
West Somerville District	958 71
Total	7,191 391
Number between eight and fourteen years of age	4,446
Whole number of different pupils registered in the schools	9,120
Average whole number belonging	7,035
Average attendance	6,608
Valuation of the city May 1, 1891	\$38,093,100 00
Real estate	\$34,950,800 00
Personal estate	3,142,300 00
Rate of taxation . . . . .	.015
Estimated value of school property	\$636,725 68

Expenditures by the school board		\$121,255 62
Teachers' salaries	\$108,058 81	
Salaries of officers	3,750 00	
Books, supplies, water, and light	9,446 81	
Expenditures by the city government		46,155 16
Janitors' salaries :	9,794 92	
Fuel	7,147 68	
Buildings and improvements	11,478 38	
Repairs, etc. (Schoolhouse Inci-		
dentials account)	17,734 18	
Total expenditures		\$167,410 78

REVIEW OF THE MINUTES.

The new board organized with a new mayor in the chair, William H. Hodgkins, who had been a member twelve years ago by virtue of being the president of the Common Council. He greeted here several who had been his former associates on the School Board, either having been in continuous membership or former members. His words of hearty sympathy with the work of education and his earnest determination to exert all possible effort for the good of the schools were an inspiration. Mr. Cutler was returned by Ward One; Mr. Bingham, by Ward Three. President Wiley, of the Council, and Dr. Dearborn, of Ward Two, were the only new members, as Ward Four returned, after an absence of three years, our old friend, Professor Brown, who was warmly welcomed by all.

At the first meeting the superintendent, as usual, named the subjects likely to come up for consideration during the year.

The subject of school accommodations was early considered by the board and the appropriate committee. At the January meeting it was voted to request this committee to consider and report at the next meeting upon the needs of the East Somerville District, also to consider the advisability of adding four rooms to the Bingham School.

In February the following report was presented and adopted:—

1. That we renew and reinforce the report of the committee of 1891, as follows: "That the City Government be requested to erect immediately a schoolhouse, suitably arranged and furnished, for an English High School, provided also with accommodations for the department of industrial education, together with a hall sufficiently large for graduating exercises, etc."

2. In view of the rapid growth of the East Somerville District in the neighborhood of the Edgerly and Davis schools, it is recommended that the board request the City Council to build an addition of four rooms to the Edgerly building as soon as possible. There are twenty-four legitimate schoolrooms in the district, which will accommodate 1,200 children, fifty to a room. There were in December 1,319 pupils in attendance, or 119 more than can be properly accommodated. This has necessitated the employment of seven assistants to teach in the over-crowded rooms. It is probable that four rooms would be filled by January, 1893. The increase from 1889 to 1890 was fifty; from 1890 to 1891, eighty-six.

3. In 1891 a petition, signed by residents of Ward Four living south of the Fitchburg railroad, was received by the School Board, asking for a school in that neighborhood. In view of the growth of the Spring Hill District, which has necessitated the re-opening of the Beech-street School for the overflow of the Franklin School, your committee recommend additional accommodations as soon as possible for Ward Four. The increase in the Spring Hill District from 1889 to 1890 was ninety-five; from 1890 to 1891, seventy-three.

At this meeting the question of the establishment of a two-session plan for the High School was brought to the consideration of the board. This subject became the foremost topic for three successive meetings. In April a majority report was made to the effect that "the two-session plan would be detrimental to the interests of, and a lasting injury to, the school," and a minority report was presented by Mr. Bingham in opposition, when a substitute resolution was offered, which received the unanimous vote of the board, as follows: "That, in the opinion of the School Board, the adoption of the two-session plan is not desirable, except as a possible temporary measure." The High School Committee continued to consider the subject, and in May the following scheme was unanimously adopted,

which has now been in operation since September, it being expected that the membership of the school would be about 550 : —

1. All the pupils who have work four periods each day, namely, the first and second classes and the college division of the third class, to come at eight and remain till twelve. This will probably number 250 pupils.

2. The remaining 300, consisting of three sections of the third class and all of the fourth class, to be divided into relays of 150 each; the first to come at eight and go at eleven; the second to come at eleven and stay till two o'clock.

This will provide for 400 pupils for four hours and 150 the last two hours; with only 300 on half time.

It is proposed that during April, May, June, September, and October the school keep from eight until two; and the remaining months, November, December, January, February, and March, from half-past eight till two, the periods to be fifty minutes. Recess in the middle of the day (twenty minutes), to allow the first relay to go, and the second to enter.

In March the Winter Hill District committee reported that by the opening of the Glines School it would be possible to vacate the Cedar-street School building, and they had arranged to make the transfer of teachers, pupils, and supplies on April 1. The board approved the plan, and the Spring Hill committee reported that inasmuch as half of the pupils now in the Cedar-street School belonged to their district, and as the Burns School was greatly over-crowded, it would be necessary to keep the building open. The board accordingly gave power to the Spring Hill committee to take the building and make the required transfers. To enable the Spring Hill committee to do this on April 1, the Winter Hill committee transferred Miss Alice Porter to the Glines School, and released Miss Boardman to the Spring Hill committee. Miss Boardman remained in charge of the building, taking second and third grades. Miss Lacy was then transferred from the Harvard to the vacant room in the Cedar-street, and took first grade. The school building is now full, Miss Lacy having first and second grades, and Miss Boardman third and fourth. The yard and the building, inside and out, have been put in better condition and renovated. The school has greatly improved, and to-day it appears and is one of our pleasantest schools.

In June the City Government decided to enlarge and improve the Edgerly School, and the classes were dismissed for the year on June 16. The committee on public property sent a communication to this board asking for a definite plan to relieve the crowded condition of schools in Ward Four, and at the June meeting the Spring Hill committee presented the following scheme, which the board approved and sent to the City Government, viz.: That the Franklin School building be moved to a lot near the corner of Park street and Beacon street, renovated, rearranged, and provided with a good heating and ventilating system; and that a new building be erected on the Beech street lot after the purchase of a strip adjoining.

At the September meeting, when it had become known that the City Government had done nothing to improve the ventilation of the High School, the board voted to send a request to the committee on public property that immediate steps be taken to introduce an effective system of ventilation into the building. It is to be greatly regretted, however, that still nothing has been done in this important matter.

The committee on repairs, knowing that, in consequence of the cramped condition of the finances of the department of public property, it would be useless to recommend the necessary repairs in the school buildings, confined their report to the request that the buildings be properly cleaned and the walls and ceilings whitened and painted, a very reasonable and seasonable request, which in some cases has been complied with.

The next subject in time and in importance was the finances. Early in February the several committees who are responsible for school expenditures made careful investigation of the needs of their respective departments for the year and returned to the finance committee their demands. The finance committee at the February meeting reported the following recommendation, which was adopted by the board: that the City Government be requested to make the following appropriation for the current year, viz.:—

For School Teachers' Salaries	\$125,000 00
For School Contingent (salaries of officers and janitors, \$12,900; supplies, \$15,500)	28,400 00
	<hr/>
	\$153,400 00

In March the superintendent reported the appropriation made by the City Government, and explained what would have to be done in order to meet the situation, and showed that it would be impossible to get through with the funds appropriated. In reply, the whole situation was explained by his honor the mayor in a simple and straightforward manner, to the entire satisfaction of the board. In October the mayor sent a communication to the effect that the school contingent appropriation had been exhausted, and that no more bills could be approved by him till additional appropriations had been made; and the superintendent presented a financial statement, which the board referred to the finance committee, with directions to forward to the City Government a statement of the present condition and needs, and request that transfers be made from other accounts to the credit of the teachers' salary account and the school contingent. The following is the statement made by them : —

Amount estimated by School Board as necessary for —

Supplies	\$15,500 00
Salaries, including janitors' salaries	12,900 00
Appropriation by City Government for salaries, not including janitors'	\$3,750 00
Appropriation by City Government for supplies	9,250 00
Total school contingent at disposal of School Board	\$13,000 00
Expended to date and paid by city for supplies	9,131 84
Balance for supplies	118 16
Bills approved by School Board yet unpaid	\$1,404 03
Bills approved at October meeting,	162 19
Bills payable not yet approved	2,486 85
	<hr/>
	\$4,053 07

This shows a deficiency of over \$3,934.00, which, however, is less than the board estimated by over \$2,300.00. This amount shows

not an over-estimate, but the extent to which the committee on supplies has curtailed the expenses of the schools by restricting supplies.

School teachers' salaries account : —

Estimate of the School Board	\$125,000 00
Appropriation by City Government	108,000 00
Balance at date	\$24,942 74
October pay-roll	12,628 50

The balance after paying the October salaries will scarcely pay the salaries for one month, which will leave a deficiency of over \$12,000.00 on this account.

SCHOOL EXHIBITS.

In the February meeting the superintendent reported that the committee on the observation of the city's semi-centennial had appointed the superintendent, Mr. Carr, and Mr. Dickerman a committee to prepare a school exhibit as a feature of the celebration; that several meetings had been held; and that the committee recommended that such an exhibit be held. He also presented the subject of the Massachusetts exhibit at the World's Fair, and requested that a committee be appointed, explaining that whatever might be prepared for one might do to use for both occasions. The matter was referred to the committee on industrial education. Subsequently this committee reported, and the school exhibit was held June 17 and 18 in the High School building.

RULES AND REGULATIONS.

There have been some minor changes of the rules, as follows:—

April 25. 1. Section 3, Chapter IV. of the Rules (describing the duties of the finance committee) was amended by adding after the word "supplies" in the sixth line the sentence, "They shall examine and approve the pay-rolls of all bills passed by the board."

2. The following sentence was added to Section 2 of the same chapter: "They [*i. e.*, the committee on salaries] shall examine the pay rolls of salaries of all persons in the service of the school committee and approve such as are found correct."

November 28. Section 6 was added to Chapter VI. of the Rules, as follows: The district committees may at their discretion appoint assistant teachers in the primary and grammar schools having an

average of over fifty-six pupils on the following schedule of salaries:—

	Per annum.
First year for a teacher without experience or normal training, as an observer or assistant	\$ 00
Second year for such teacher	200
Third year for such teacher	275
Fourth year for such teacher	350
Fifth and subsequent years	425
First year for a Normal School graduate	275
Second year for a Normal School graduate	350
Third and subsequent years	425

An experience of at least thirty weeks shall be required to constitute a year's work.

MUSIC.

One of the most important acts of the School Board was the vote to appoint a director of music for the first four grades. Mrs. Garwood was elected at the May meeting to serve the city two days each week, visiting the schools and holding teachers' meetings. At the August meeting, on the request of Mr. Hadley, the work in the fifth grades was transferred from him to Mrs. Garwood.

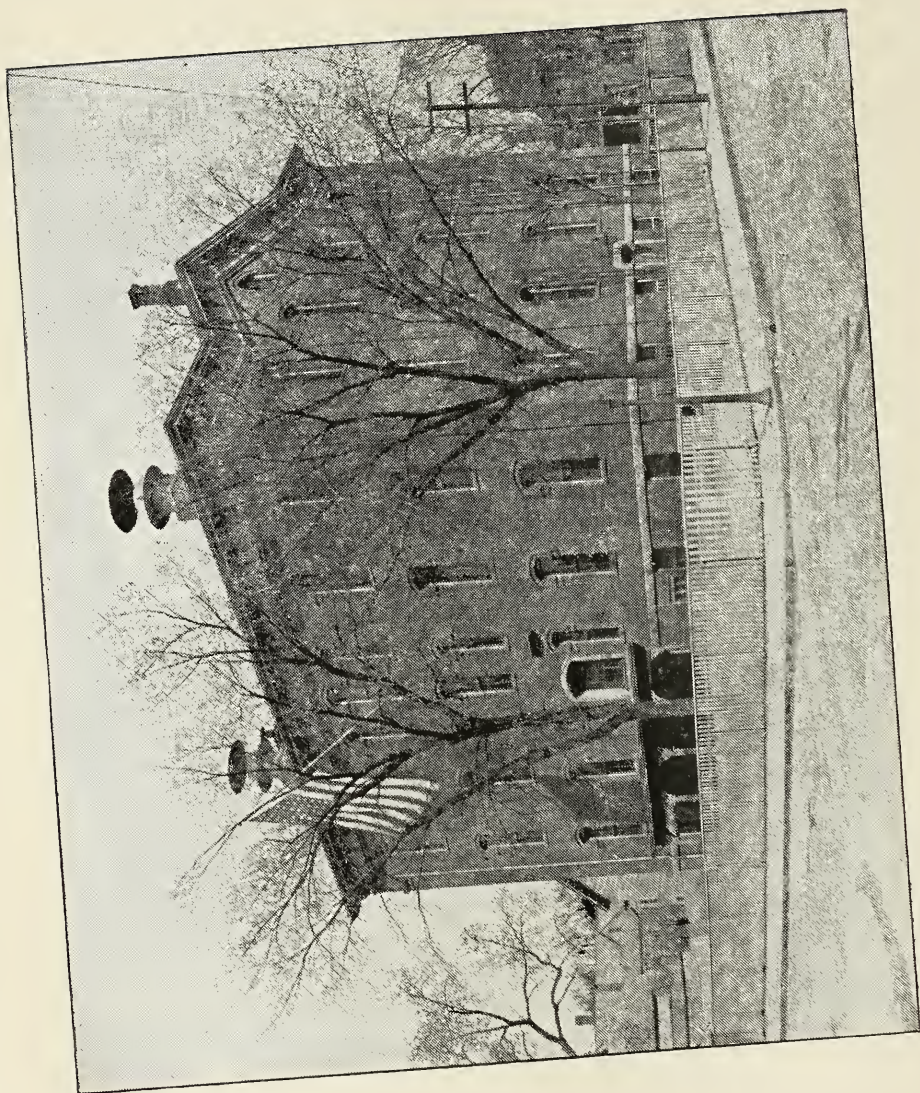
By vote of the board May 31, the Second Normal Music Reader was adopted for use in the fourth and fifth grades, to follow the First Reader in the second and third.

TEACHERS.

There have been twenty-one resignations of teachers, and thirty-seven appointments of new teachers. Five have been granted leave of absence.

RESIGNATIONS, 1892.

High School,	Sarah F. Litchfield, June 27.
	Annie E. French, June 27.
	Josephine H. Short, Sept. 26.
Prescott School,	Emma F. Porter, April 25.
	Florence M. Morton, June 27.
Edgerly School,	Mrs. Addie L. Smith, June 27.
	Annie M. Elder, Dec. 27.
L. V. Bell School,	Gertrude E. Robbins, March 28.
	Grace P. Thomas, Oct. 31.



PRESCOTT SCHOOL.

O. S. Knapp School,	Nellie A. Hamblin, May 31.
Charles G. Pope School,	Emily G. Arnold, June 27.
Prospect Hill School,	Florence O. Bean, Oct. 31.
Forster School,	Blanche E. Heard, Sept. 26.
	Minna L. Wentworth, Oct. 31.
Bingham School,	Hattie L. Devereux, May 31.
	Laura C. Duddy, Oct. 31.
Morse School,	Anna Pushee, June 27.
	Ella G. Worden, Nov. 28.
Franklin School,	Emmeline C. Summerhayes, April 25.
Highland School,	Harriet B. Sargent, June 27.
	Mary H. Knight, Nov. 28.

LEAVE OF ABSENCE.

Edgerly School,	Lilla J. Pike, Oct. 31.
Cummings School,	Addie M. Brown, Sept. 26.
Morse School,	Amy C. Hudson, June 27.
	Ella F. Gould, Oct. 31.
Teacher of Music,	S. Henry Hadley, Dec. 27.

DIED

June 17, 1892,

ADA COWLES.

For many years a faithful and beloved teacher of the East
Somerville District.

NEW TEACHERS APPOINTED.

High School,	Mary M. Kingsley, Jan. 25.
	Bertha L. Brown, Jan. 25.
	Mrs. Lena Gilbert, Nov. 28.
	Isabel G. Goldthwaite, Nov. 28.

East Somerville District.

Prescott School,	Grace L. Shaw, May 31.
Edgerly School,	Annie E. Elder, Sept. 26.
	Clara B. Cutler, Sept. 26.
	Helen P. Bennett, Sept. 26.
	Etta Colburn, Oct. 31.

Prospect Hill District.

L. V. Bell School,	Vyra L. Tozier, Feb. 29.
	Ines M. Dernier, Feb. 29.
	Eula M. Byrns, Feb. 29.
	Grace P. Thomas, March 28.
Webster School,	Mary C. Friend, June 27.
Charles G. Pope School,	Florence A. Chaney, Feb. 29.
	Helen M. Freeman, Feb. 29.
	Ellen P. Longfellow, Feb. 29.
	Lydia E. Morrill, June 27.
	Jane Parker, Oct. 31.
Prospect Hill School,	Grace Emerson, Sept. 26.
	Blanche Seabury, Sept. 26.
Bennett School,	Minnie Wiggins, June 27.
Jackson School,	Jeannette M. Billings, Sept. 26.

Winter Hill District.

Forster School,	Jennie L. Thompson, Sept. 26.
	Lucy K. Hatch, Sept. 26.
	Grace Shorey, Oct. 31.
Bingham School,	Ruby A. Johnson, March 28.
	Belle J. Tiftt, Oct. 31.

Spring Hill District.

Morse School,	Mrs. Maria F. Hill, June 27.
	Annabel M. Perry, June 27.
Franklin School,	Ella M. Coops, May 31.
Harvard School,	Carrie A. Fowle, June 27.

West Somerville District.

Highland School,	Mabel A. Jepson, Feb. 29.
	Jennie S. Wescott, September 26.
	Agnes M. Ward, Dec. 27.

SPECIAL TEACHERS.

Drawing, Augusta L. Balch, Jan 11.
 Music, Mrs. Gish Garwood, May 31.

SCHOOL ACCOMMODATIONS.

In a growing city like Somerville, after taking care of existing schools, the most urgent need is a wise provision for the expansion and development of the system to meet the demands of increased population, and broader and higher ideas of practical education. Considerations of economy, and possibly other complications, have prevented the City Government from making the year 1892 memorable for schoolhouse construction, however memorable it may be in the history of America and the history of Somerville. The work of enlarging the Edgerly building was begun in June, and has not yet reached that stage in its progress that will enable me to describe its adaptability to the needs of the school. A recent report of the committee on public property states that the ventilation of all the school buildings has been considered by the committee, and everything has been done that seemed feasible. I am sorry I have not the facts in my possession to enable me to concisely describe here just what school buildings have been investigated, or which have been improved in the matter of ventilation. It does not fall to the province of the School Board to have the responsibility of placing the school buildings in a proper sanitary condition, and the committee on repairs does not usually make a report at this time.

Six years ago there were 112 classrooms in twenty-one buildings; now we have 149 rooms in twenty-three buildings; two unoccupied rooms in the Brastow School, leaving 147 rooms in twenty-two buildings. We erected three new buildings and enlarged two old ones. By so doing we hoped to be able to surrender seven old buildings, which had been pronounced unsuitable for school purposes; but the increase in population has made it necessary to occupy all the old buildings, except the Union and Brastow. The effort, therefore, to replace old, unhealthy buildings with new and improved structures has not been accomplished. While some of the crowded districts have been relieved, others are still cramped for room. The schools of the Spring Hill District are more crowded than they were five years ago, though the Morse School has been enlarged and very much improved. The district not only occupies anew all the old buildings, but has recently taken in the Cedar-street School. The new rooms of the Highland School are already full, and the Lincoln was never so crowded as now.

In Ward Three there has also been a great increase in the schools, the new Glines School using seven rooms, while the Bingham School has already outgrown the building. In East Somerville the Davis School is much too large for the building, and there is little hope that the enlargement of the Edgerly will afford the necessary relief. There seems to be no indication that the schools in the Prospect Hill District will be able to accommodate the pupils of that portion of the city, in view of the phenomenal demand for new tenements to accommodate the influx of operatives and their families for the new works of the New England Dressed Meat & Wool Company.

As compared with the erection of school buildings, the city has developed much faster in the construction of dwellings and in population. In 1886 the population was 30,000; the school population was 5,296; the school enrolment, 6,350; the number of dwellings, 5,245.

This year the population is estimated at 44,580; the school population, 7,190; the school enrolment, 9,120. In 1886 in the primary and grammar schools there were 44.7 pupils to a teacher on the average, and now there are 47.

To meet the growing demands of the city, there should be an increase of schoolrooms each year. The fact that no new rooms have been added this year will make the need still more urgent in 1893. The plan proposed by our committee on additional school accommodations for the Spring Hill District should be acted upon in some way by the new City Government, either by its adoption or its modification upon some liberal scale. The request of the Winter Hill committee for an enlargement of the Bingham School must not remain unheeded.

But the greatest need of the city educationally is a new English High School. This has been so persistently urged, and so elaborately set forth by the School Board in recent years, that it would seem unnecessary to repeat here the claims for such an institution and the pressing need for immediate action. It was gratifying to those interested in the matter, that the City Government, at least, discussed the subject, and that the committee on public property invited the School Board to present the case at a hearing in February last. The High School committee and the committee on additional school accommodations responded to the invitation, and presented the subject

forcibly and graphically. The argument for an English High School as summarized by the superintendent was in substance as follows:—

“Our High School building was designed to accommodate from 250 to 300 students and from six to eight teachers. It has grown to a school of over 530 pupils, and, with the hall cut into two classrooms, is arranged to allow ten teachers to work at one time, though we have now, in consequence of the absence of the principal, twelve teachers,—two being substitutes,—whom we employ by using the upper entry and the basement when the weather is mild. Before the principal was taken ill we had an average of fifty-three pupils to a teacher. Now we have forty-six per teacher. As compared with the high schools in the other cities of the State, this is a very large number—the average being twenty-seven pupils.

“We may expect that of the 380 pupils now in the ninth classes 250 will ask for admission to the High School in September. The following year, which is the earliest date at which it is possible for a new school to be ready, there will be 290 seeking admission under the present unfavorable conditions. Under favorable conditions I estimate that 320 pupils would seek admission to the High School in September, 1893. Of the total number then in the High School,—about 690,—I estimate that 250 would be in the classical school and 440 in the English High. Something must be done immediately to inaugurate a systematic work for relief. This building cannot be done before September, 1893, and must be built during two administrations. By the beginning of 1893 at the furthest there will be demands for more school accommodations in other parts of the city for the primary and grammar grades. Any delay, therefore, will either indefinitely postpone the erection of a high school or bury future administrations under an avalanche of imperative public improvements.

“From the last available city reports (1890) I find but two high schools outside of Boston larger than ours, viz., Worcester and Lowell. In Worcester they are now building a fine English high school, and in Lowell the school board has been trying for years to secure a new building. Cambridge and Lynn were in similar condition until their schools were divided into classical and English.

“A division of the High School is a necessity, on account of the lack of room in the present building, and for educational reasons;

viz., organization and instruction. Experience also shows that it should be divided by courses, and not numerically or geographically. As to the organization or administration, the massing of large numbers under one roof or under one principal is a difficult matter, and its results are now seen in the breaking down of the principal of our High School. As to instruction, it is absolutely impossible to carry on a complete course of study in the branches now recognized as belonging to an English high school in a school organized, equipped, and officered as a classical school.

"It has been asked, 'Why not enlarge the present building?' Because it would simply magnify the difficulties now existing in the two particulars just mentioned—organization and instruction. We do not want a larger school of the same sort; we want an entirely different one, except what would remain in the classical course. It would be impossible to organize a separate school in the new part or the old part, with two principals of co-ordinate powers; unless it could be done as the Boston Latin and English high are, on two opposite sides of a block. I am authorized to quote Mr. Baxter as saying that such a scheme should on no account be attempted. We cannot organize an English high school in the present building, or in any addition to be made to the present building.

"What is an English high school? This subject, treated as it deserves, would require a lengthy article. I will briefly state what constitutes the courses in the schools now in existence, and add what is now being demanded and will in the near future become permanent: 1. Complete and thorough course in language and literature, including grammar, rhetoric, composition, biography, and considerable reading of classic English and some other modern language. 2. Mathematics, including geometry, algebra, trigonometry, book-keeping, business arithmetic, etc. 3. History—United States, general, civil government. 4. Science, including elements of botany, zoölogy, physiology, physical geography, geology, astronomy, and physics, including mechanics and electricity. 5. Drawing, mechanical and freehand. 6. Tool instruction, woodwork, joinery, pattern making, wood-turning, metal work. 7. Physical culture. Cooking is a part of the course in some schools.

"Such a course differs from our present work in the substitution of certain studies for Latin and Greek, the introduction of drawing and manual training, the greater thoroughness of scientific studies,

and especially in the method of work. This entire change of method is the most distinguishing mark of the English high school, which itself is a recent conception in education. The English high school of to-day and the future was not dreamed of when our High School building was erected. It is the extension downward of the institutes of technology and schools of science. Its method is known as the laboratory method, which characterizes all the work of the school. It calls for an entirely different equipment, rooms, furniture, apparatus, etc., and in a large measure a corps of teachers having different aims, ideas, training, and experience. The school provides for electives to meet varying talent, and recognizes the principle of individualism in education. It aims to cultivate all the powers of the pupil—to lay a good foundation and awaken an interest in lines of study adapted to the individual needs of each student. It does not claim to prepare for trades or business especially, but recognizes the claims of those who intend to enter these activities as equal to those who wish to take up the learned professions. In a word, the school aims to educate the child as broadly as his powers admit of at the present, instead of bending all its resources to preparing for future courses of study. It recognizes the principle that every boy and girl has a right to an education commensurate with his powers, even if he is not looking forward to the classic walls of the college; and that there are lines of study and elements of knowledge capable of developing the highest intellectual powers in a person who may have no taste or aptitude for Latin, Greek, and mathematics.

“A look into a modern English high school building would give a better idea of the equipment and arrangement necessary than volumes of descriptions. I will simply state that there should be smaller study rooms than in our present building. There should be a large physical laboratory for individual work, adjoining an apparatus room and a lecture room possibly; a good chemical laboratory equipped for individual work, with the necessary storage and apparatus room; a room for a botanical or mineralogical laboratory; a room for freehand and one for mechanical drawing. These and the wood-working laboratory or metal room would have to be fitted up expressly for their peculiar work, and would probably be in use about all the time. There would have to be libraries for history, biography, and literature, with conveniences for study and research, in the rooms devoted to these branches, and one or two rooms for mathematics.

“If this be true,—and a careful investigation should be made before any plans are made,—it is evident that the present building could not be used as an English high school, and the necessary remodelling would entail heavy expenses; in fact, the rooms are not arranged to make it in any degree possible to accommodate such a school. The idea, therefore, of building a new classical school and converting the present building into an English school would be irrational. We never could have what we want. Besides, the present building is only large enough for a school of 300 students, which is about what we might expect of a classical school; whereas our English high school will number 400 or 500 students inside of five years, judging from the result of Lynn and Cambridge.”

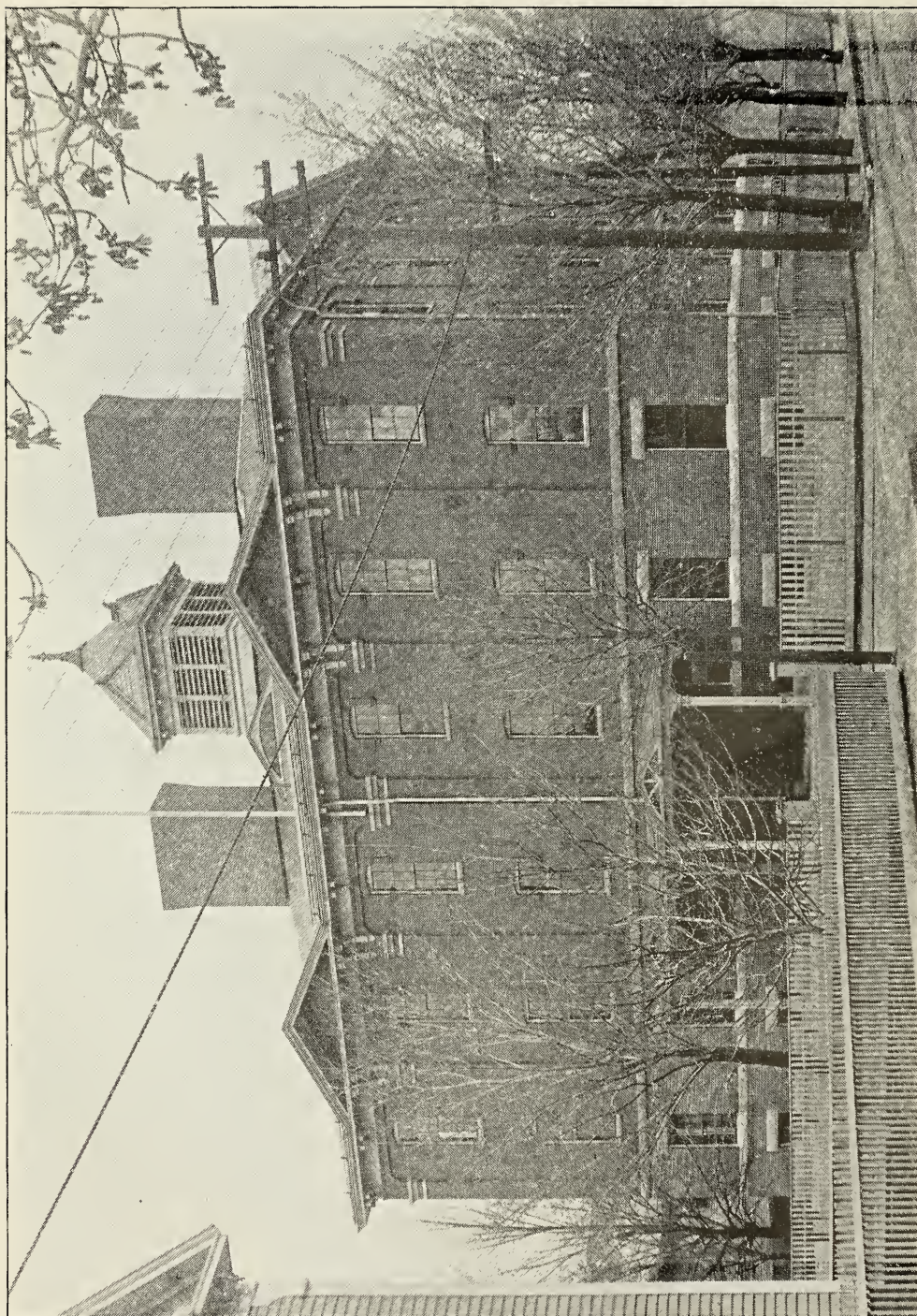
The points made were amplified and reinforced by the members of the committees.

As the High School increased considerably in September and there was no place for the pupils but the High School building, the committee formulated the plan, already described in the record of proceedings, which has been in operation since September. It is too early to judge of the success of the plan, as it would be manifestly improper to pass judgment upon a measure dictated by necessity and demanding time and confidence for its success. It is admitted to be a temporary expedient, and we are trying to accomplish the best results that can be under the circumstances. It is believed to be the best scheme that could be devised.

The necessity for a new building still remains and calls still more loudly for consideration as the numbers increase. But the great urgency is not occasioned by the number of pupils. It is rather the need of another and far different school to satisfy the demands for an education more varied, more comprehensive, and more practical than that which the present outfit is capable of furnishing, and which it will always be impossible to accomplish except in a separate school, with all the necessary equipments of a separate school.

SANITATION AND BUILDINGS.

Three and four years ago the School Board gave a great deal of attention to the subject of ventilation. The condition of the school buildings was carefully investigated also by the committee on public property, in which we were aided and advised by the State inspectors.



EDGERLY SCHOOL.

As a result a very important, progressive, and systematic movement was made to improve the old buildings and to furnish all new schools with the most approved systems. The arrangements in the Prescott, Forster, and Lincoln schools were completely changed. New systems were put into the Morse and Highland schools when they were enlarged, and into the Knapp, Pope, and Glines schools, the only new buildings erected in that time. This was a most gratifying advance. This year the Smith improved system is being put into the Edgerly. The High School and the Bell, of the large schools, as well as all the old wooden buildings, have for years been very unsatisfactory, and have caused much complaint. During this year the Webster has been supplied with two furnaces, but with no means of ventilation; while the Franklin, Bennett, Jackson, Harvard, Beech, Spring Hill, and Cedar-street buildings are still heated by stoves. The Prospect Hill, Cummings, and Davis have furnaces, and the Burns and Bingham are heated by direct or indirect steam heat; but none of these buildings have any means of ventilation other than the windows and doors. In the appendix will be found a table showing at a glance the means of heating and the condition of ventilation in all the buildings in the city.

It is very important that the good work so successfully begun should be continued. It is necessary to bring this matter to the attention of the City Government each successive year. The conditions are so bad in the old schools, that I am sure the buildings would be condemned by experts. I have refrained from calling the State inspectors to make examinations and reports, hoping that progress would continue as it had begun. I have also found that in some of the schools, where a great outlay has been made for ventilation, the apparatus is liable to fail of its object, because the janitors, either for lack of instruction or from indifference, neglect to supply an adequate amount of fresh air. I have frequently found the slides in the cold air boxes entirely closed, allowing the furnaces to take the air from the cellar, or from some room on the first floor, impure air thus passing down the register from a cold room to be warmed in the furnace and be supplied to a heated room upstairs. Too much care cannot be given to this matter, and the janitors need constant supervision in this regard.

The condition of the sanitariums at the Cedar-street and Beech-street schools was brought to the attention of the board of health,

and radical improvements have been inaugurated. In this matter it is hoped the board of health will continue their good offices.

The work that ought to be done on our school buildings is Herculean, it is beyond the means of the city to perform in one, two, or even three years, but something should be done each and every year, whether new buildings are put up or not. Besides the means of ventilation, which should be the first improvement, there is great need of cleaning and painting the interior walls and woodwork. For the sake of cleanliness and decency, for health and appearance, for the satisfaction of the teachers, and especially for educational influences, the cultivation of good taste, and the æsthetic and moral nature of the children, our schools should be models of cleanliness, neatness, comfort and good style. Dingy, cracked, patched, and stained walls should disappear under the brush of the artist painter. It would cost very little to paint the walls of the schoolrooms. If the City Government could realize the appreciation and enjoyment of the teachers and children whose rooms have been thus improved, they would immediately take steps to put every room in the city in repair. The influence upon the teaching will compensate the city for the expenditure. The culture of the children will in years to come doubly repay the community for the outlay. One of our best teachers, in debating whether to accept a position elsewhere of a more flattering and tempting nature, decided to stay if her room would be repaired and painted.

In this connection I am pleased to report that the teachers and friends of the Lincoln School formed an association to raise funds for the purpose of ornamenting the schoolrooms with works of art. Quite a sum was raised and a good beginning made, which I hope other districts will follow. The committee on public property were persuaded to paint the walls of the rooms, which was necessary before any works of art could be put in place. Hon. Edward Glines donated a large sum for the purchase of pictures for the Glines School, which now adorn the walls of all the rooms. It is to be regretted, however, that the walls of the building had not been painted; to fully appreciate and fitly set forth the value of the pictures, the tinting of the walls is absolutely necessary.

There is a great movement in New England, and other sections also, in the direction of art education, by means of the decorative and artistic finish of school buildings. The architect and artist are

exercising their silent, but potent, influence upon the minds of the public school pupils. The *Journal of Education* thus describes the work of Mr. Ross Turner and the Public School Art League:—

“The first step was to place in the schoolroom—after explaining his desire and plans to the school officials, whose consent was gladly given—a number of his private paintings and works in plaster; whatever, in effect, would add beauty and an artistic atmosphere to the school home. When this had been done, it was an easy matter to interest others, especially those whose children were in the public schools. Money was collected, photographs, and other objects were loaned, and the Phillips School, in a district where there was ample room for artistic training, was selected for the experiment. The committee on public buildings was influenced, and the walls of one room were tinted in a quiet grayish tone, agreeable to the eye. After the committee in charge had arranged this room, a circular was issued, January, 1892, inviting citizens to its inspection. As a result of the interest thus created, the committee has been enabled to adorn several other rooms in this building and to make a beginning in other schools.

“On Mr. Turner’s invitation, a number of Boston men and women, friends of art and of the schools, visited Salem, and on their return work was begun for the schools of this city. Two rooms have been decorated by the league—one in the English High School and one in the Rice Primary School; while the North End Mission is about to experience an innovation through the generosity of private individuals. The Girls’ High School has for some time been a witness to the practical benefits of artistic surroundings in the schoolroom.

“The Public School Art League of America was formed in the hope of unifying this movement, giving it strength, and aiding those who might otherwise have to undertake the work alone.

“The purpose of this movement is to place school children during their formative years among beautified surroundings, so that while at their studies they may unconsciously absorb the influence of what is good in art, and learn to distinguish the good from the bad. With the growth of a generation whose taste had been thus developed we would have a public holding higher standards for all their surroundings.

“The result need not be all unconscious. Children are inter-

ested in what is about them is the test of our natural science, and it is no less true in artistic surroundings. The white wall and the blackboard are valuable, it is true, for illustrating some points regarding the diffusion of light; but these scientific facts are no less truly shown by walls which reflect the deep Pompeiian red or the soft buff, and by pictures which carry us back to the great artists of Florence and Venice, by white casts of the works of Phidias and others of the grandest of all handicraftsmen. We have for a thousand years been learning how to profit from the lessons of Greece and Rome, but we have neglected one of the most evident of all the lessons they have to teach.

“The artists have already gone much more than half way in giving an impetus to this movement. It is for the teachers to meet them and do all that can be done to help it on. To no one can it possibly mean so much as it will to the teachers. Others are working for succeeding generations, for humanity embodied in young America. This is the teacher’s work always, but in this case the teacher alone has the privilege of reaping from it personal profit. Can any one hesitate when the reward is a transfer from a bare-walled schoolroom, adorned with globe and reading or music chart; to a school home, with warmly tinted walls, lovely pictures, idealizing statuary, the influence of heroic and ennobling men, a beauty that shall become personified goodness?”

SCHOOL EXHIBIT.

In reviewing the work of the schools during the year I might take as an object lesson the exhibit of school work made at the High School building in connection with the semi-centennial celebration of the founding of Somerville. There very much of what is being done in the schools was displayed. The exhibit was an attempt to place before the public types of the daily work of the children. Much that was displayed was selected in this way, the rest was prepared for the occasion, and was in quality and scope typical. It was not simply an exhibit of the manual work of the schools, because the manual work necessitates preliminary intellectual work. In fact, it is impossible to separate manual from intellectual work. There must be observation and thought before expression, whether by language

or by manual products. A large section of the exhibit was language work. The work was displayed in the hall and three large rooms of the High School. The whole exhibit was all the more satisfactory and gratifying because it was composed of voluntary contributions of the teachers.

Of course, the drawing and color was pre-arranged, as no complete, systematic, graded exhibition could have been made without a preliminary plan, but the other work was contributed by those who had something to send, and exemplified the work done in every grade and every subject of instruction.

The success of the exhibition is due to the principals and teachers. Committees were appointed to look after the exhibition in each subject. They talked the matter over and arranged and systematized all the contributions made in their several departments, and made suggestions how best to bring out and mount the features of every grade of work. Their painstaking labor resulted in presenting one of the most important and attractive features of the semi-centennial. A feature of the programme which contributed materially to the success of the exercises of the occasion, though in no sense an exhibit of school work, was the chorus of eight hundred pupils, under the direction of Mr. S. Henry Hadley, our enthusiastic and popular music teacher.

The arithmetic was represented by apparatus and material to illustrate the method of teaching fractions, mensuration, etc., and by drawings, tables, figures, and demonstrations of all the processes and subjects taught, and of the various drill exercises, in all grades from the first to the ninth. In connection with fractions, percentage, and mensuration were some very good instrumental drawings of geometrical figures and problems, accompanied by developments and card models of geometric solids. Mr. Wadsworth was chairman of the committee.

The science was represented by collections of leaves, grasses, pressed flowers, twigs, bark, grains, seeds, and other vegetable products; by minerals, illustrating various strata of the earth's crust, various soils, gravel, sand, rock, minerals, and metals; by animal products, cases of insects in their various stages of development,—a beautiful moth was hatched during the exhibition; and by drawings and written work on plants, animals, human physiology, physical geography, astronomy, and natural philosophy. There were also

some pieces of home-made apparatus, illustrating machines and mechanical forces, etc. The exhibits were taken from a number of schools from all parts of the city, and covered work done in all grades, from the primary to the High School. Collections were arranged in boxes on the desks and tables, specimens and drawings were mounted on charts, and much of the written work and drawing was bound. Mr. Andrews was chairman of the committee.

The geography, history, and language work were arranged in three rows of mounted sheets on the wall, the geography in the highest row, the language at the bottom. So far as possible, this was graded from left to right on two sides of the largest room.

Packages of composition work and other language exercises were to be seen on the tables. Every grade of the schools and every feature of the instruction and drill was exemplified.

There was a good graded exhibit of penmanship illustrating the drill and the instruction in each of the grades.

The maps made of wood, paper pulp, putty, cards, and cloth, and the map drawing, both in geography and history, were varied to represent the processes of instruction. Mr. Southworth was chairman of the language committee; Miss Wendell, of the history committee; Mr. Brainard, of the geography committee.

The drawing was arranged by grades, in three rows of mounts; one section contained working drawings, pictorial or object drawing, and historical ornament; another a series of graded home drawings, done according to the children's own ideas; another a graded set of sheets illustrating the course in mechanical drawing. The work was very creditable, and showed a marked degree of progress in this subject. One section of small space was occupied by an exhibit of work in color, showing the course of color instruction and the designs made by pupils in colored paper. In connection with the drawing was a collection of articles made of paper, cards, wood, etc., from the drawings, indicating a feature of manual training which is suggested and inspired by the drawing course. Most of the things were made by the pupils at home, of their own free will. It indicates the natural bent and inclination of children to work with tools and construct things, a tendency that should always be taken advantage of in any system of schools.

The kindergarten work included sewing, paper folding and cutting, and mat weaving, the colors being all of the standards used in

the primary schools. This occupied a section of wall space. The clay work from the kindergarten and primary classes was arranged in sections, corresponding to the grades of drawing. All this work was, of course, organized and arranged by Miss Balch, our director of drawing, who deserves generous praise for her admirable work, for her artistic taste and judgment, and for her organizing ability.

One corner was occupied by photographs of school buildings, classrooms, pupils at work, teachers and graduating classes, and classes in gymnastic exercises. This feature of the exhibit indicates the possibility of preserving for future reference features of public school education that it might be desirable to perpetuate. Mr. Shattuck had charge of this department.

There were three long tables of the products of the cooking class, including bread, cake, vegetables, meats, jellies, etc. The members of the class have taken a year's instruction at the North Bennett-street Industrial School, through the generosity of the board of managers. One lesson of two hours was given each week. The pupils were from the eighth grade of several schools. I regret to state that this opportunity could not have been given to us this year.

The sewing exhibit occupied a room by itself, and was an exemplification of our course, which covers the six grammar grades. Beside the mounted work there were large numbers of articles displayed on tables, which were the school and home work of the pupils of the several grades.

It is gratifying to report that this course in sewing, which I need not here again describe, is practically our own, though developed from the work in Philadelphia, modified, graded, and amplified by our own teachers, and has been copied and adopted by several cities in our own State, which have introduced sewing into the schools since we began; several cities which have had sewing a great many years have abandoned their old courses and adopted ours. I say this in no boastful spirit, but in justice to our teachers, who have been untiring in their service.

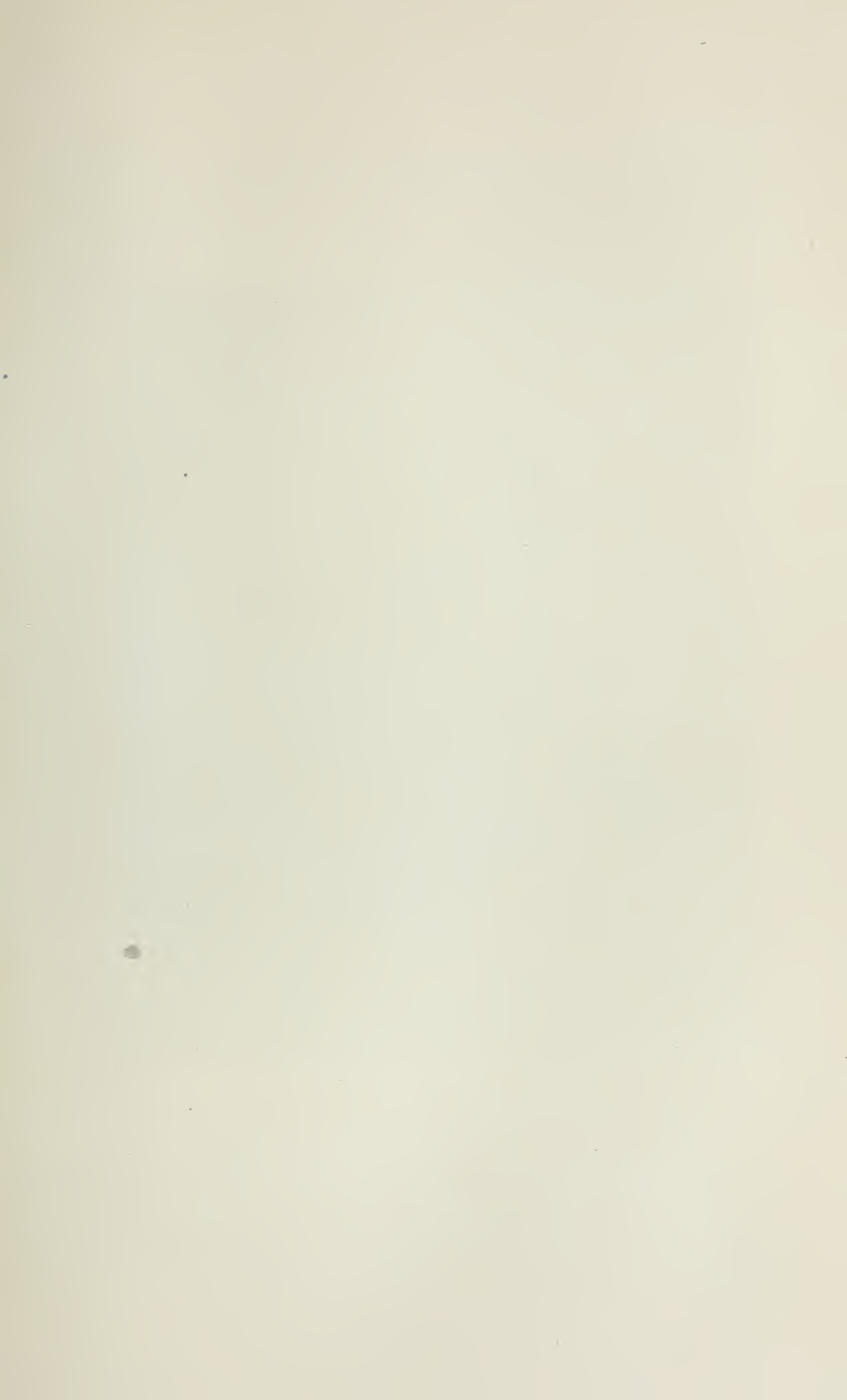
The exhibit of the High School work was very creditable. It included collections of pressed flowers by the botany class, geometric drawing, historic ornament to illustrate the study of history, drawings done in connection with study of physics, chemistry, and physiology. There was a very fine collection of language work, souvenir calendars, and other interesting and artistic specimens of pen work and amateur

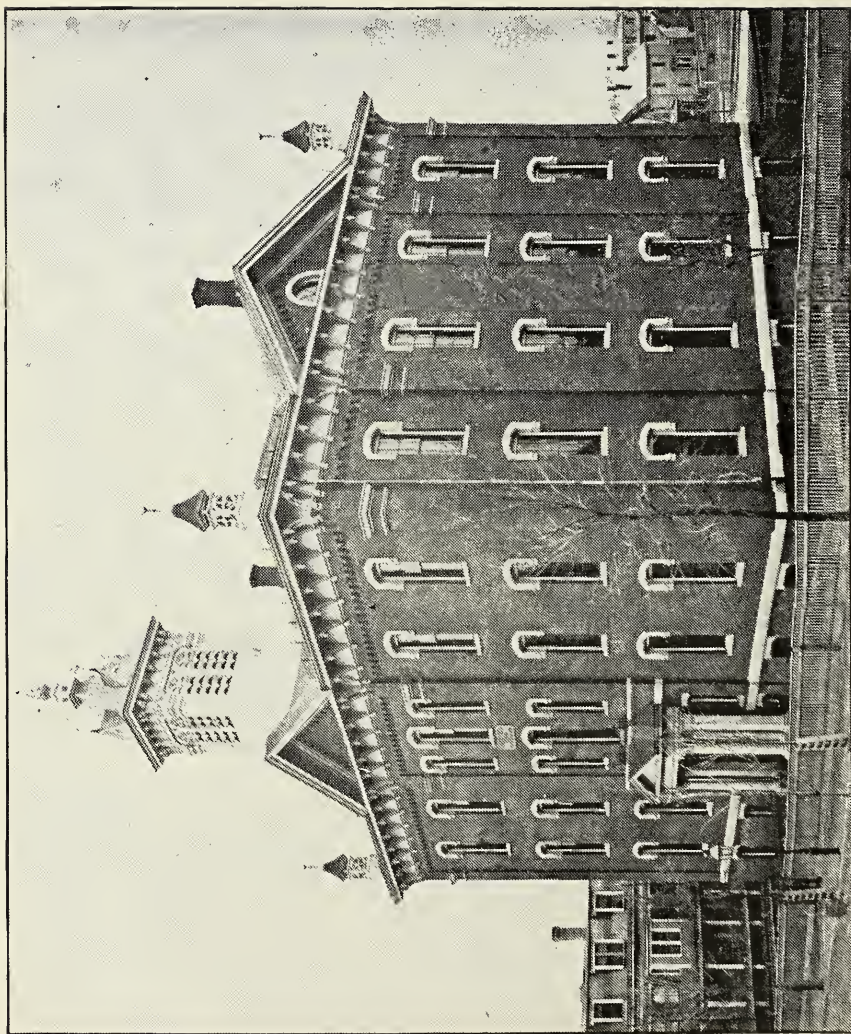
photography, mostly done at home and in the fields, at the pupils' own suggestion.

While this description of the exhibit does not fully review the work done in the schools, in these particular features it will doubtless suffice, inasmuch as I have more fully expressed my views and described our instruction in former reports.

In drawing I shall depend upon the report of Miss Balch. In regard to physical training, I can only say that, so far as I have observed, the work is being done very creditably, and in some instances admirably. In some schools, particularly where there are new teachers, we have not kept up to the standard set us by Miss Livingstone. I am as confident of the success of our system, and as hopeful of the best results, as when I made my last report; but I see that it is impossible to do in the whole city what ought to be done, and get the results that the system is capable of producing, without a director. I recommend that some one well trained in the system be employed to hold teachers' meetings, and, if possible, supervise the schools. An occasional visit by one full of enthusiasm, as our first teacher was, and as helpful and suggestive, would make a wonderful difference in our schools. I hope the committee which has the department in charge will consider the matter at an early date.

In reading we have not yet reached the results we hope some time to accomplish. The matter is under consideration, and has been presented to the teachers recently in an address by Superintendent Aldrich, of the State board of education. I need not repeat what I have said in former reports on this important subject, but will simply refer you to my report of 1890, on the subject of literature and reading. After treating of the educational value of reading and literature, I explained a system of circulating the reading matter already provided, and recommended the addition of valuable books in literature. A scheme of circulation has been put into operation, but is unsatisfactory for want of a few more sets to complete the circuits, and the scant supply of books of literature, which is the most important supplementary reading matter. I believe nothing has been added to the list of supplementary reading this year, and no new sets have been purchased to facilitate circulation. In this connection I wish briefly to restate my earnest desire that more time be spent in reading history and biography. By far the most cultivating, enriching, and inspiring studies are the humanities, language, literature, history,





LUTHER V. BELL SCHOOL.

and biography. Philosophers regard these as of the highest educational value, and yet, except in the High School, the provision made in our curriculum for these studies is extremely limited. By means of a small appropriation each year, this department in the grammar schools might be well equipped for this important work. Some time ago I outlined for the committee on text-books a plan by which the schools might in time be furnished with libraries of choice reading, to be used in instruction, and as a means of silent culture through individual reading. I hope to have this important feature of the schools established at no distant day. My advocacy in former reports of class libraries is one I will not repeat, except to say that other cities are making a great advance in this particular.

The call for a large supply of supplementary reading which we have been making for four or five years, and the necessity and plea for class libraries, is in harmony with the present widespread movement now felt in our neighboring cities for "enriching and enlarging the grammar school course of study." Though a progressive city educationally, our limited appropriations for supplies during the last two years has made it impossible for the committees to further this movement for better literature.

Several cities in Massachusetts are experimenting with an extended course of study for grammar schools. Much that is being done is in the right direction, some is empirical. Our conservatism will doubtless prevent a headlong plunge into anything not guaranteed by the best authority and by successful experience; there is no reason, however, to prevent a consideration of these questions, and a careful examination of the experiments now going on. It is a notable fact that conferences of educators, councils of education, representative college professors, teachers of secondary schools, principals and teachers of elementary schools, are busily investigating and considering these questions. I will not now take your time to discuss this matter, because I have already presented some phases of it in former reports. The question of educational values of studies, however, is a highly important one, which it is our duty to carefully estimate.

Looking forward to a gradual modification of our curriculum, some of the principals have been testing the practicability of departmental teaching in the grammar classes. This is not a new idea, nor an untried experiment. Many successes have been made on this plan. Under certain conditions very efficient results may be accom-

plished, but it is yet too early to report or to draw conclusions. We are feeling our way, and may have something to report in future. Another experiment that should be noted, but of which much cannot yet be said, is the organization of classes composed of pupils of several grades who are prepared, or who ought, to do special individual work between grades or beyond the grade. This gives evidence of great promise. Another important step in the right direction is the appointment of supernumerary teachers in schools where the classes are very large to give special instruction to individual pupils or sections. In former years part of this has been done by the principals. The value of such work cannot be over-estimated, and is worthy of careful attention. It need not be confined, as of late, to the primary classes, but under wise management may be very effective in the grammar grades as well. What I recommended last year in this matter may at an early day be tried.

RELIEF FOR THE GRAMMAR SCHOOLS.

The crowding of our grammar schools is becoming a very serious problem. The new buildings recently opened have helped very much to provide for the large classes, but never before has the work been so heavy in the grammar department. One mode of relief has been mentioned, but something more permanent and efficient needs to be done. I am thoroughly convinced that many of the pupils spend more time in the grammar classes than need be. For those who are qualified and inclined to take long years of study in higher institutions some provision should be made to shorten the grammar school course. None of these great educational questions can be considered without a thought of the High School. The relief of the grammar classes, the enlargement and enrichment of the grammar-school course, the introduction of special work, all depend upon the advantages offered in the High School and the room provided for High School pupils.

All educational progress, as it now seems to me, is at a standstill for the want of better facilities for a high-school education. The arguments put forward time and again by members of the board and others included the idea of making the High School an outlet for the crowded grammar schools. The present fourth class in the

High School contains a number of pupils from the eighth grade of the Highland School. It is a notable fact that all who applied passed the examination successfully and have taken creditable rank in the High School. There are pupils in the other grammar schools who could have done the same and saved a year in fitting for college. The practice could not be made general for lack of room, but if we had an English and a classical school, pupils might enter from the eighth and even the seventh grades, as is done in other cities.

A very important and hopeful experiment is in progress in a neighboring city by which the large grammar schools have each two plans of organization and classification: at one pupils take the grammar-school course in the usual manner in six years, and at the other in four years; in other words, the instruction is divided in one case into six portions, as it were, one-sixth to be done each year, and in the other the same amount of work is divided into four portions, one-fourth to be done each year. It is claimed that the same training and development is afforded in both courses, because the pupils who cover a certain amount of ground in four years are capable of higher culture and more rapid development. The experiment is one of great importance, and if after a careful trial it proves efficient, it will also prove what we have claimed for some time, that many pupils are kept too long on the grammar course. There have always been pupils in our schools who have completed the grammar course in less than six years; but by our method of annual promotions and distinct grades a year apart, it has been necessary for pupils frequently to skip an entire year's work in order to go over the whole in less than six years. There is no question that some system should be devised whereby the entire course may be completed without any breaks and skips in less than six years, if there are pupils capable of doing it. The experiment of ungraded classes which we have inaugurated is one way of solving this problem.

Another method is also being tried, that of organizing a district in grades six months instead of a year apart. This is done in large schools by having two classes of a grade, one six months ahead of the other, and in small schools by having two sections of a grade in one room. This is not an untried experiment, having been used successfully in many places. Never has there been more thought put upon the problems of how best to make the schools meet the wants of the children. The day is passing when the child has to be made to con-

form to the machine. This is no age in which everything must bend to traditional systems, when individuality must be sacrificed to routine and organization, when all the pupils of a grade must be either brought up or brought down to the average; the progressive, the studious, the ambitious, the faithful pupils losing valuable hours, days, months, and years for the sake of classification, while the teachers drag up the slow and plodding pupils, who must be kept up to grade.

THE AGE OF GRAMMAR-SCHOOL PUPILS.

A committee of the New England Superintendents' Association has spent much time collecting data in regard to the time children take in passing through the grammar schools, and their ages at graduation. Statistics were collected from all cities and towns in New England that have superintendents of schools. The returns from 104 places have been formulated. The average age of the graduates of the grammar schools this year in thirty-eight cities of New England having a nine years' course of study was fifteen years, two months. That of our graduates was fifteen years, four months. In these thirty-eight cities, eighteen per cent. of the graduates were over sixteen years of age, fifteen per cent. were under fourteen, three per cent. completed the course of nine years in six years, six per cent. in seven years, nineteen per cent. in eight years, thirty-five per cent. in nine years, twenty-seven per cent. in ten years, and ten per cent. in more than ten years. In Somerville twenty-nine per cent. were over sixteen years of age at graduation from the grammar schools, eight and nine-tenths per cent. were under fourteen years. As to how many years each graduate took to complete the course, it was impossible to report definitely, because many came from other places, though we know that two per cent. took six years in our schools, seven per cent. took seven years, nine per cent. took eight years, twenty-three per cent. took nine years, twenty per cent. took ten years, and the rest came from other places and cannot be classified. This shows that about eighteen per cent. of our pupils complete the primary and grammar grades in less than nine years, and twenty-three per cent. take nine years. If pupils are longer than nine years in passing through the grades below the High School, the reason should be investigated; some causes are easily explained, but these do not answer all cases. The committee is pursuing inquiries further,

and will doubtless be able to throw some light on this important subject.

The statistics thus far collected relate to the graduates of the grammar schools. We must remember that the ninth class numbers about six per cent. of the whole number of pupils in the nine grades, and that these average as high in scholarship as any. Last December the average age of the pupils in the ninth classes was fourteen years, ten and one-half months, but the average age of the lower classes is each proportionately higher; for instance, the average age of the fourth class was ten years, three and one-half months, and that of the seventh class was thirteen years, two months. By this it is plain that pupils lose time in the lower grades of the schools. To ascertain the exact state of the case, I have collected reports from all the teachers of the ages of their pupils December 1,—that is, how many are five years old, how many six, seven, eight, etc., up to eighteen,—so that I know just where the old pupils are. This summary will be found in the appendix with other statistics. My next problem is to ascertain why these individual pupils are in classes at an age when we might expect them to be further advanced. I have known for several years that our classes contain very many old pupils, and have determined the causes in many cases. Some of the reasons which I am prepared to report are these:—

1. Late in entering school. People have an erroneous idea that the schools are not adapted to children five years of age, and so keep them out till they are six, seven, and sometimes eight years old,

2. Some lose much by absences from sickness and other causes. some of it due to poverty and lack of nourishment and care at home. This cause I hope to investigate more thoroughly, and will refer to it in another connection further on.

3. Some lose by transfer from other places where the course of study differs materially from our own. This cause should not exist. There should be sufficient uniformity to enable pupils to enter corresponding grades in neighboring cities.

4. Many fail of promotion because they have not been taught; several causes may operate to explain this more fully,—one is that there are too many pupils assigned to a teacher. Children waste precious time either doing nothing in school, or in doing what some call “busy work,” but which leads to nothing; has no educational or

disciplinary value. It is commonly supposed that a good teacher can manage and teach fifty-six primary children. This is a delusion. No one can teach more than a small group at one time, and it is a mistake to allow the other portion of the class to remain unemployed or without suitable direction in their work. To be sure, there are occupations that keep the little ones out of mischief while working by themselves; yet there is a great deal of time wasted, no matter how skilful the teacher. I believe a teacher can accomplish more with sixty pupils in a year by having thirty for three hours in the morning and the other thirty for three hours in the afternoon than by having them all for five hours each day. I also believe that with thirty-five or forty, five hours daily, she can do immeasurably more than she can with fifty all day. Every class contains quite a percentage of dull or slow pupils, who have to be neglected while the teacher is occupied with the bright ones. I believe there is no time or expense saved by giving teachers large classes. It simply takes more years to do the work, or it is not done at all. For instance, if a man can do a piece of work represented by forty in eight days, it will take him ten days to do similar work represented by fifty, or it will take more men to do it in the same time. Therefore, if we give to one teacher more pupils than she can teach, it will take more years to do it, and there will be no saving in the long run; whereas, if we give a teacher just as many as she can teach, they will get through school sooner, and we shall save the expense of instruction for the time gained. That is, the saving in time will be a saving of salaries, which may be paid to a larger number of teachers and the work will be done.

5. Another explanation of the fact that there are many pupils in the several grades about the average age is that there has been no adequate provision for the pupils who are not prepared for promotion or who are promoted on trial, which you understand to mean being advanced to classes where they do not belong. This system clogs the wheels of progress and operates against the prepared as well as the unprepared. The remedy is to organize intermediate grades, where pupils may find their place. We are making progress in this direction, and I hope to see the day when it may be said that every child is in the class where he belongs and is doing just the work that his abilities enable him to do. To accomplish this requires more teachers and more elasticity in the work of the schools; but it will pay

in the long run. I here recall to your attention my report of last year on this subject.

NEGLECTED CHILDREN.

I have instituted inquiry into the home conditions of our poor children. Every one who enters upon investigations of this kind, even in a small and well-to-do city like ours, finds conditions that are revelations, to say the least. We find that much of the poor scholarship, irregular attendance, and bad behavior is due almost entirely to home life, or, rather, to neglect and abuse at home; poverty, ignorance, and bad morals, in addition to poor blood, as some call the child's inheritance of brains, is a large part of the explanation. Two classes of children fall under this inquiry: one, the teachable, who come under our instruction most of the time for several years; and second, the vicious, the truant, the neglected, and incorrigible. For the first class much more can be done at the public schools. They need the best schools and teachers we can give them for the regular school year, and they need vacation schools, which I have in former reports advocated, and which I believe would be a great saving to the city. I will not weary you with a repetition of this argument, as I have discussed it before.

The second class need what the city of Boston, after years of deliberation and consideration, has decided to establish, viz., a parental school, where children may be taken and cared for and educated. You have doubtless read the plan of such a school and its purpose. A proper care of these children would save later poverty and crime, with its attendant expense. I am not prepared to say that it is the duty of a city like Somerville to establish such a school, but I believe it at least the duty of the county or the State to provide adequate protection from abuse and poverty to the little helpless, innocent children, who are really the wards of the State. It would be economical for the State to make ample provision for these neglected children, and thus save the larger expense of crime, and the maintenance of courts and criminal institutions, to which these inevitably grow up; besides, the community would be the gainer from the fruits of honest toil to which the children might be reared. There is a time when the State has the right to take from the parent his neglected child, and fit him for a life of usefulness. It is also the duty of the State to protect itself from the invasion of ignorance and

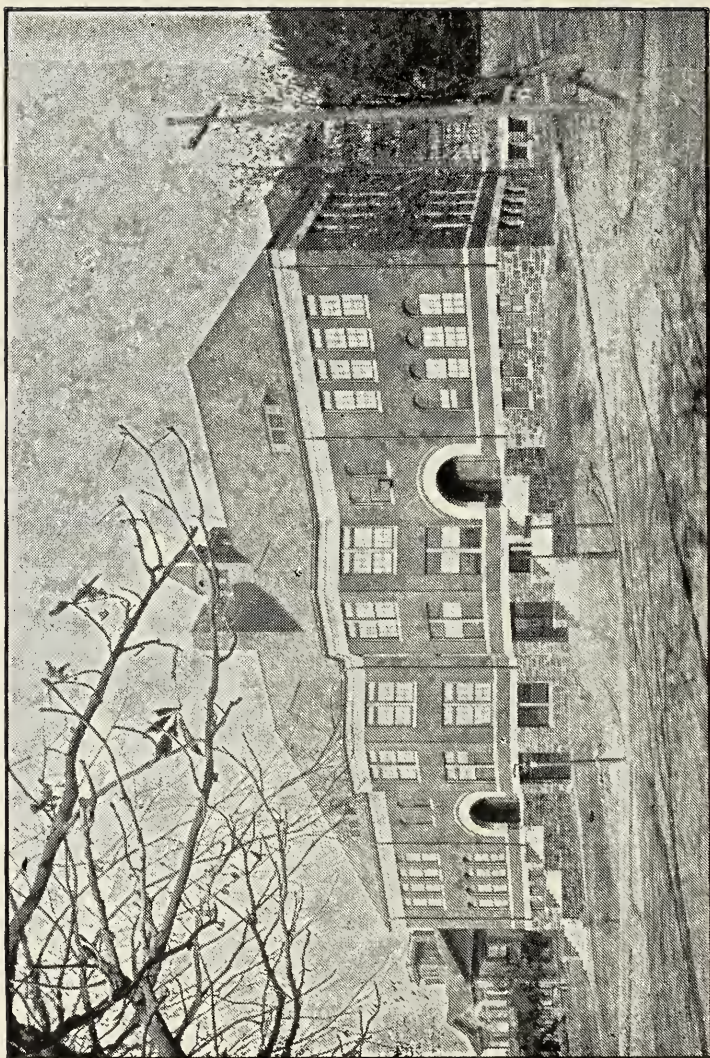
crime, which is constantly coming to our shores from foreign lands. Each year shows a larger proportion of foreign citizens. In self-defence, the State must use every endeavor first, to educate, our native born and raise them to the highest stage of civilization and usefulness of which they are capable, then do all possible for the immigrants. We are blind to our duty and blind to our danger, if we neglect any portion of our community. We shall be overwhelmed by the invasion of foreign ignorance if we do not rear here among our own people a generation of educated, industrious, moral, and cultured citizens. The State should do this, because it is to save the institutions of the State, because its benefits are to flow out to the State. Therefore, I would urge the importance of going to the legislature and asking that the State do something for our neglected classes.

I am pleased to report that for years some of our schools have made it a practice to collect clothing for the needy, and to distribute it in homes where deserving people dwell. The truant officer has taken the distribution in hand, and much good has been done. Children who otherwise could not attend school have thus been clothed. At Thanksgiving time the schools collect and distribute provisions, that cheer many a family that otherwise would suffer in want. I mean to push these inquiries to see if there cannot be some way by which our children may be more regularly and more completely educated. Physical education is as essential as intellectual, but whether the city can feed as well as educate, is a question not for me to answer, though other countries, states, and cities have in some cases done so. Nourishment is a necessity: a good slice of bread might prove a preventive for many fits of temper and many unlearned lessons.

The truant officer is aiding me very willingly in the investigation of the causes that lead to irregular attendance and bad behavior. This is a great field for inquiry, and I am hopeful of getting down to causes the removal of which may greatly facilitate the development of true character and more ideal results in instruction.

MUSIC.

The one notable gain made during the year is the appointment of a music director for the first five grades of the schools. Music introduced last year in the primary grades made a fair beginning, but a decided improvement has now been instituted, which has inspired



CHARLES G. POPE SCHOOL.

confidence in all who are interested in this department of our schools. It is too early to report results. I am satisfied simply to say, that a good beginning has been made, and to submit Mrs. Garwood's report:—

The aim of vocal music study in our public schools is to enable the pupils to sing at sight,—without the aid of an instrument,—a piece of music never seen before. This can be accomplished by the regular teacher. The same principles apply to the teaching of music as to any other branch. The work is graded, each class has a step in advance to take. The unit of tone study is the major scale, and the first step is to sing this scale, sing it till every step and half step is thoroughly learned, till the youngest pupils have mastered every interval, and tones are thought. After this has been done, give the representation,—“Do the thing first, give it a name afterward.” The unit of time study is a visible sign, the swinging pendulum; and by the use of a system of “time names” applied to the swings of the pendulum, both power and length of tones are conveyed to the mind, and simple and complicated rhythms are understood and mastered by the pupil. The union of these two great principles, applied to carefully prepared exercises and songs, will produce such results as only this combination can.

The primary work should be thoroughly done, in order that the advanced steps may be taken to good advantage.

The work in the grammar grades will not show the results this year that will be possible when these classes have had the preparatory drill, and when the teachers better understand the object and the means of study by which the end is best attained. However, good faithful work is being done, and interest is growing, but time must be allowed, patience exercised, and the fact must be borne in mind, “’Tis one thing to know how a thing should be done, another thing to do it.” Skill can only be gained by earnest, thoughtful effort; failures at first, success finally.

The teachers have given me hearty co-operation, and their labor is appreciated; for without their intelligent assistance my time would be uselessly spent. My part, then, is to plan work, instruct teachers in the theory, visit classes, hear them, see if they are being properly taught, take up a new step with them before the teacher, and thus have opportunity to see special needs, and give best help.

The teachers who comprehend methods of instruction can much more readily understand the normal course of music.

When the subject is treated from a child's point of view, the delight of both teacher and pupils is manifest, and the study of music becomes one of the most enjoyable. The pupil is taught to observe, think, and then sing. There must be mental conception of both rhythm and time. If pupils understand the subject, and if they make intelligent and continued effort to learn to sing and to do whatever is required, they will succeed as surely as in any other case wherein nature gives results as a consequence of intelligent activity. I would respectfully ask that we be allotted a little more time to devote to the study of music. One hour and a half per week would be a great help to us.

Very respectfully,

GISH GARWOOD.

SOMERVILLE, MASS., December, 1892.

DEPARTMENT OF ART AND INDUSTRIAL EDUCATION.

This branch of our work was conducted for several months without a director, with a result described by the committee on drawing in the last year's report as follows:—

“The experience of these few months has plainly shown that a supervisor is a necessity, in order to keep the work up to the standard it had already attained. This need is felt most among the new teachers, but in all grades, and especially in those above the fourth, where new work is now being taken up, supervision and instruction are necessary for the best results.”

It was found, also, that during the five months which followed Miss Herrick's resignation the work suffered considerably, not only on account of the inexperience of new teachers, who are constantly coming into the ranks, but also because in most of the grades the work is in the state of progression, and it will be a number of years before each class will be ready for the work systematically arranged for it in the course.

Miss Balch submits the following report and suggestions : —

The present supervisor of drawing feels herself fortunate in being allowed to build on so good a foundation as that laid by her predecessor. Most of the teachers who worked with Miss Herrick have a fair knowledge of the elements of form study and drawing, and are able to teach these subjects successfully.

In this paper it will not be necessary to speak very minutely of the details of the work, as these have been already dwelt upon in previous reports. Let us devote our attention more especially to the needs of our schools in the direction of art training.

What are we doing to foster in our children a fine appreciation and love of the beautiful? In literature, if this is done at all, it **must** be by putting before them the works of the best writers, even from a very early age. This is quite easy to do, but how about art, as applied to painting, drawing, and sculpture? The works of the great masters we cannot have even for our homes, much less for our schools. Shall we then do nothing in the matter, because we cannot do the best? Many of the great masterpieces of art are reproduced by photography in such a way that, although the charm of the coloring is lost, the beauties of form still remain. Might not these have some influence toward the culture of the higher nature of the child?

It is true that even the largest reproductions are usually **not** large enough for the walls of the schoolroom. A picture which does very well for the home is entirely lost when hung in the schoolroom. It might be possible, however, if there were a demand for enlarged copies of the works of the great masters, that they could be supplied. Casts, also, reproducing some of the finest examples of sculpture, can be obtained at slight cost.

It will be urged in answer to these statements, that even though the expense for each school should be small, yet the entire amount required will be considerably more than the School Board would feel justified in expending. This is quite true, and until the public feel the great importance of art training for our people, nothing need be expected in the way of an appropriation for this object.

Meanwhile, there are doubtless many individuals who would be glad to bring more beauty into the lives of our children, and who feel that whatever is given for this purpose is very far from being lost. If a company of such persons could be formed and should take measures for establishing a fund for bringing art into the schoolroom,

would it not be a glorious thing? This fund might be placed in the hands of a committee competent to judge of suitable decoration in the way of wall finish, and also of appropriate pictures to place before children in the different grades. If this could be accomplished, there would come an element into our teaching which is at the present time almost entirely lacking. For five hours in the day the children would be in the presence of that which tends to elevate and refine; for, of course, only those examples would be selected which are universally acknowledged to be of the best.

Another great need in our schools is color-teaching. Last year a few designs in colored paper were made in each class, and the results, as shown in our exhibit, were very pleasing. We need another and larger supply of this colored paper, as well as charts and tablets, so that the work may be systematically carried on in all our schools. The education of the color sense in children is of great importance, not only because the element of color enters so largely into the practical affairs of life, but also because a fine appreciation of harmony in color is a source of pure and exquisite pleasure, which tends to refine and uplift its possessor.

In all our work in drawing during the year we have tried to encourage free expression on the part of the child. To aid in this he has been asked to illustrate little stories and poems read or told by the teacher, and also to make pictures at home of the things in which he is interested. It is hoped that the fostering of this natural desire for expression, combined with a systematic training in observing and representing form, will result in making the pupil as ready to express his thought by drawing as he is by speaking or writing.

Side by side with the acquiring of the language of form should go the training for the appreciation of that which is really good and beautiful in form and color, just as the study of the language of words should be accompanied by the best in literature.

We have no expectation that even with the most thorough, patient, and earnest teaching the average graduate of our schools will become either a poet or an artist, but we do most sincerely believe that all may be uplifted and refined, and that all may be led to a certain extent to appreciate and love the good and beautiful in literature and art.

AUGUSTA L. BALCH,
Supervisor of Drawing.

TEACHERS.

I wish to call your attention to the fact that we have appointed thirty-five new teachers since the last report. This means, as you know, that a great amount of time has been spent in looking up teachers, that progress in the schools has been retarded by constant changes in the teaching force, and that the time for supervision has been seriously interrupted. I am pleased to state that we have been able to secure good teachers, though some have declined our offers by reasons of inducements at home.

The business of securing good teachers is a large and very important one. It is well known that the supply is limited, and it is a serious question how and where to secure the best. Substitutes are also scarce. It is difficult to obtain assistants. The question of the training of teachers is forcibly brought to our attention, and I still believe that the board will sooner or later be obliged to take steps toward the establishment of a training school.

GRADUATIONS.

The graduating exercises of the High School took place at the First M. E. Church Tuesday morning, June 28th, and were much enjoyed by the large audience which assembled to witness them. At their close, His Honor Mayor Hodgkins presented diplomas to the eighty-two graduates.

The following is the programme:—

FORTIETH ANNUAL EXHIBITION OF THE SOMERVILLE HIGH SCHOOL, TUESDAY, JUNE 28, 1892, AT 9 A. M.

ORDER OF EXERCISES.

INVOCATION.

REV. GEORGE SKENE.

SINGING.*—CHORUS: "Heaven and the Earth Display,"
from "Athalie."

Mendelssohn.

1. SALUTATORY IN LATIN.

GREGORY P. BAXTER.

2. ESSAY. *Composite Photography.*

LULIE MAY.

3. READING. HOW BABY PAID THE MORTGAGE.

AMY B. WHEELER.

SINGING.—VOCAL MARCH: "Song of the Sea."

Veazie.

4. READING. SWAN SONG.

Brooks.

CARRIE M. LOWELL.

*Singing accompanied by Hadley's Orchestra.

5. Die Prinzessin.

ARDELLE ABBOTT,
 BLANCHE S. BRADFORD,
 FLORENCE L. DAVIS,
 GRACE GAY FLETCHER,
 JENNIE L. JONES,

BEATRICE L. MILLER,
 MINERVA L. MILLS,
 JOSIE G. OWEN,
 KATHLEEN E. PILLSBURY,
 IDA M. SAWYER.

SINGING. — AIR AND VARIATIONS.

Proch.

GERTIE L. NICKERSON.

6. ESSAY. *A Timely Topic.*

JOHN E. LE BOSQUET.

7. From "King Henry IV., Part II."

(Original version in Greek.)

F. MARSHALL JONES,
 FRED R. JOUETT,
 H. WILDER LEWIS,
 SARAH L. BRADLEY,

GRACE N. BROWN,
 IDA P. CLOUGH,
 MARY F. GODDARD,
 ETHEL M. HAYES,

BERTHA M. STOCKBRIDGE.

SINGING. — PART-SONG: "The Brownies."

(Scored for orchestra by S. Henry Hadley.)

RECESS.

MUSIC.

SINGING. — CHORUSES (for ladies' voices):

a. The Rustic Dance. (Gavotte.)

Resch.

b. Sanctus. (Solo and Semi-Chorus.)

*H. K. Hadley.*8. ESSAY. "*Fitting of Self to Its Sphere.*"

HILA H. SMALL.

9. L'année bissextile.

ALICE M. BECKLEY,
 KATHERINE C. COVENEY,
 E. MAUDE CUSHING,
 MABEL DERBY,
 IDA E. GODFREY,
 LOUISE W. HASKINS,
 LAURA W. HAWES,
 ALICE M. HOYT,

EDITH M. LEIGHTON,
 LUELLA PATCH,
 FLORENCE E. PRIOR,
 ELLA L. RAYMOND,
 ALMON W. BLAKE,
 WILLIAM P. CHENEY,
 CHARLES D. SOLOMON,
 ALLAN B. SOUTHER.

10. READING. AUNT POLLY'S GEORGE WASHINGTON. MARION WEST.

11. CLASS POEM.

MABELLE G. DUSTIN.

SINGING. — CHORUS: Song of the Vikings.

Fanning.

12. READING. ECHO AND THE FERRY.

Jean Ingelow.

IDA M. REMICK.

13. PROPHECIES.

CHARLES H. DAVIS.

14. VALEDICTORY.

HELEN E. HARDING.

15. PRESENTATION OF DIPLOMAS.

BY HIS HONOR MAYOR WILLIAM H. HODGKINS.

16. PARTING HYMN.

WRITTEN BY MARY F. GODDARD.

MEMBERS OF THE GRADUATING CLASS.

Ardelle Abbott.
 Sadie Isabelle Baird.
 Alice May Beckley.
 Carrie Marie Borns.
 Blanche Stetson Bradford.
 Clara Butterworth.
 Edith Lewis Cole.
 Catherine Cecelia Coveney.
 Etta Maude Cushing.
 Mabel Lydia Dadmun.
 Florence Louise Davis.
 Mabel Derby.
 Grace Moore Downing.
 Mabelle Gertrude Dustin.
 Grace Gay Fletcher.
 Ida Earle Godfrey.

Maud Linwood Hadley.
 Florence Jane Harwood.

* Louise Webber Haskins.

Laura Willard Hawes.
 Lillian Haynes.
 Alice Maude Hoyt.
 Grace Pitman Jennings.
 Jennie Louise Jones.
 Grace Harvey Leach.
 Edith Mabel Leighton.
 Harriet Dean Lochman.

Carrie Mabel Lowell.
 Beatrice Lillian Miller.
 Minerva Louise Mills.
 Alice Elizabeth Morang.

* Gertie Louise Nickerson.

Emily O'Brion.
 Josie Gertrude Owen.
 Luella Patch.
 Kathleen Elizabeth Pillsbury.
 Florence Emily Prior.
 Grace Lillian Proctor.
 Ella Louise Raymond.
 Ida May Remick.
 Ida May Sawyer.
 Susan Hamlin Stone.
 Luvia Anna Surrell.

Marion West.

Amy Bertina Wheeler.

Robert Bowie Anderson.
 Charles William Berry.
 Almon Walter Blake.
 William Page Cheney.
 Francis Edward Doyle.
 James Edward Lewis.
 Ernest Johnson Loring.
 Edward Eugene McCarthy.
 Karl Almon Pauly.
 Charles Douglas Solomon.
 Clifford Armstrong White.

Course Preparatory to College.

Gregory Paul Baxter.
 William Edward Cotter.
 Charles Henry Davis.
 Frederic Marshall Jones.
 Fred Robert Jouett.
 Herbert Leslie Kimball.
 Herschel Wilder Lewis.
 John Edwards Le Bosquet.
 Allan Bartlett Souther.
 George Alexander Wood.

Sarah Louise Bradley.
 Grace Nellie Brown.
 Ida Prescott Clough.
 Grace Hamilton Cooper.
 Ella Louise Daniels.
 Mary Frances Goddard.
 Helen Elizabeth Harding.
 Ethel Munroe Hayes.
 Blanche Evelyn Hosmer.
 Lulie May.
 Louise Frances Parkhurst.
 Edith Florence Poole.
 Mary Ethel Louise Pratt.
 Hila Helen Small.
 Bertha May Stockbridge.
 Angie Fletcher Wood.

* Diploma not received on account of the omission of a part of the Course of Study.

Three hundred and sixty-eight of our pupils completed their grammar-school course in June, the exercises in honor of the event being held, as usual, in the First M. E. Church July 1st. The friends of the pupils and of the schools were present in large numbers. An interesting and appropriate address was given by the Rev. E. A. Horton, of Boston, music was rendered by the pupils in a manner creditable to themselves and their instructor, and the diplomas were presented by His Honor the Mayor, who first addressed the graduates in a few well-chosen words.

The programme was as follows:—

PROGRAMME.

- GRAND OPERA SELECTION — “Il Trovatore.” *Verdi.*
ORCHESTRA.
- SINGING.* — “Send Out Thy Light.” *Gounod.*
(Arranged for orchestra and organ by S. Henry Hadley.)
CHORUS.
- PRAYER. REV. J. F. LOVERING.
- SINGING. — FOUR-PART SONG. “The Dawning of the Day.” *Kallicooda.*
CHORUS.
- ADDRESS. REV. E. A. HORTON, D. D.
- SINGING — TRIO: “The Cuckoo.” *Heller.*
(Girls’ Voices.)
- ADDRESS TO THE GRADUATES AND PRESENTATION
OF DIPLOMAS. MAYOR WILLIAM H. HODGKINS.
- SINGING. — GLEE: “Hark! Apollo Strikes the Lyre.” *Bishop.*
CHORUS.

* Singing accompanied by Hadley’s orchestra, under the direction of S. Henry Hadley, teacher of music in the schools.

GRADUATES.

PRESCOTT SCHOOL.

Guy B. Aldrich.
Helen Edith Aldrich.
George A. Bailey.
Abbie S. Beck.
Olive E. Brown.

Percy E. Buck.
Helen L. Burkett.
Gertrude I. Burrows.
Edward G. Clapham.
Amy L. Cole.

John F. Cole.
Bessie L. L. Crosby.
Joseph A. Dudley.
Maude E. Dudley.
Charles A. Foss.
Cornelius J. Haley.
Harry M. Handy.
Grace A. Jackson.
Mabelle C. Janvrin.
George C. Jenkins.
Perley W. Kimpton.
Frank B. Knowles.
Ernest F. Lanagan.
Kate F. Leary.
Lillian E. Leavitt.
Josie A. Lemos.

Mary Agnes Moore.
Alberta R. Morgan.
Jacob A. Phillips.
Mary B. Reed.
Louis H. Rowe.
Eugene Russ.
Percy W. Russell.
Alice M. Saben.
Ernest A. Taylor.
Clarence H. Tingley.
Hattie B. Toothaker.
Edith A. Treadwell.
Berton H. Walton.
Margaret M. Waugh.
Bertha L. Crowther.

EDGERLY SCHOOL.

K. Florence Baker.
Roswell J. Bannon.
Annie L. Bates.
Maud G. Bearse.
William F. Bearse.
Lena A. Brackett.
Eva R. Butler.
Walter I. Chapman.
Josephine M. Clark.
George W. Clement.
Florence A. Colgate.
Bessie A. Conway.
Ethel H. Curtice.
James J. Fuller.
Ella M. Furlong.
James F. Gould.
Benjamin D. Hammond.
Leigh Hawes.
Ernest W. Higgins.
I. Grace Holbrook.
L. Gertrude Hopkins.
Ida B. Horton.
Arthur H. Hutchinson.
Minnie E. Jones.
Charles L. Joslin.

Gertrude C. Joslin.
Ella O. Josselyn.
Daniel A. Keefe.
Loretta C. Lewis.
Charles F. Liscomb.
Edith F. Marshall.
Ernest H. Marshall.
James C. Maxner.
Walter B. Morris.
Roby A. Oram.
L. Evelyn Pearson.
Edith L. Pierce.
Isabelle M. Porter.
Abbie P. Pratt.
Ella M. Shackley.
Bertha L. Skinner.
Blanche M. Smith.
G. Frederick Smith.
Origen S. C. Teague.
Elsie B. Tuttle.
George H. Tyler.
Annie B. West.
Alice G. Whittier.
Ethel M. Wing.

L. V. BELL SCHOOL.

Edith M. Apted.
Karl Burroughs.
Eugene C. Clement.
Grace B. Dane.
William H. Eaton.
Evangeline F. Fonseca.
Francis J. Hanaford.
Lizzie E. Harrison.
Arthur W. Higgins.
James A. Horrell.
Anna T. Kaula.
Nellie M. Keller.
James M. Kent.
Leon J. Kibbe.
Norbert T. Long.
Jennie M. B. McCloskey.
Florence G. McMaster.
Edward L. McShane.

Charlotte A. Morrow.
Arthur B. Murphy.
Edith J. Orne.
Annie L. Pennock.
Jean M. Percy.
Myrtie F. Rich.
Bernard J. Sheridan.
Bertha M. L. Simon.
John T. Skuse.
Lemmy Arthur Slack.
Mary A. Sleeper.
Hortense T. Small.
Gertrude M. Walker.
Effie May Wellman.
Thomas W. Wilson.
Grace E. Young.
Arthur L. Saunders.
Bessie E. Frazee.

O. S. KNAPP SCHOOL.

Frank Melvin Barnard.
Ida May Bradford.
Lena Frances Bradley.
Mary Aloyse Burns.
Leroy White Carr.
John Patrick Casey.
Thomas F. H. Cooney.
Maria Louise Dailey.
Granville Jasper Daniels.
Rose Denvir.
George Cornelius Devine.
Edward Joseph Dorney.
Annie Louise Dowley.
Annie J. Ericksen.
Frances Emma Franke.
Annie Ella Fredericksen.
Thomas F. Fitzgerald.
George W. Gallagher.
John Francis Glancey.
Harold Eugene Hanson.

Minnie Agnes Hart.
Edith Angelica Hoffses.
Edmund Samuel Hunt.
Agnes Margaret Kenney.
William George Kenney.
Horace Loveland Kenny.
William Kenny.
William James Keville.
Bertha Ashley Myers.
Anphylis J. McCarthy.
Fred Putnam McElroy.
James Francis Manning.
Clifford Wilson Paine.
Charlotte M. Richardson.
Roland Sumner Robbins.
Winifred C. Sheridan.
Adah Agnes Tincker.
George Leslie Twohig.
Florence Elizabeth Zapp.

CHARLES G. POPE SCHOOL.

Edwin Adler.	George H. Heshion.
J. Richard Ambrose.	Adella R. Hill.
Bertha P. Ames.	Florence D. Hurter.
Nellie M. Andrews.	John R. Kelly.
Grace E. Burroughs.	Joseph J. Kelly.
Ernest C. Burton.	John M. Kirby.
Clarenca A. Cushman.	Lawrence J. McDonald.
Mary F. Davis.	Edith M. McElroy.
Florence E. Day.	Gertrude F. Niles.
Henry Drouet.	Louise H. Nims.
Frank H. Earl.	Ella M. Ranks.
Robert E. Fuller.	Herbert S. Richardson.
Edward F. Gavin.	W. Leonard Stevens.
Mary E. Gilson.	Carrie M. Tozier.
Grace M. Gooding.	John B. Walker.
Marion L. Gooding.	Helen M. Westgate.
Sophie T. Haderbölets.	Mary Wilson.
Annie M. Harvey.	Amelia W. Wood.

FORSTER SCHOOL.

Anson E. Bloomer.	Wesley A. Maynard.
Otis S. Clement.	Ashley Mills.
Ernest E. Cleveland.	Ernest L. Mills.
John I. Coneeny.	Louis S. Murphy.
Louis G. Dearborn.	John J. Murray.
James G. Deegan.	Clarence M. Raymond.
Edward H. Derby.	Horace W. Sexton.
Irving J. Fisher.	Harry E. Stephenson.
Frank O. Freeborn.	Walter M. Small.
Charles W. French.	Mary C. Anderson.
Fred Hammer.	Carrie L. Atwood.
John F. Hatch.	Daisy M. Bartlett.
William P. Hodgkins.	Ethel Bowman.
Harry E. Hunt.	Florence L. Brown.
Lyman C. Hurd, Jr.	Elizabeth A. Burke.
William F. Jeffers.	Elizabeth I. Burrage.
Ernest S. Leavitt.	Edith M. Cobb.
Robert S. Littlefield.	Sadie F. Cromwell.
Joseph M. Lowell.	Mary E. Crowley.
Ralph E. Mayhew.	Fannie K. Edgecomb.

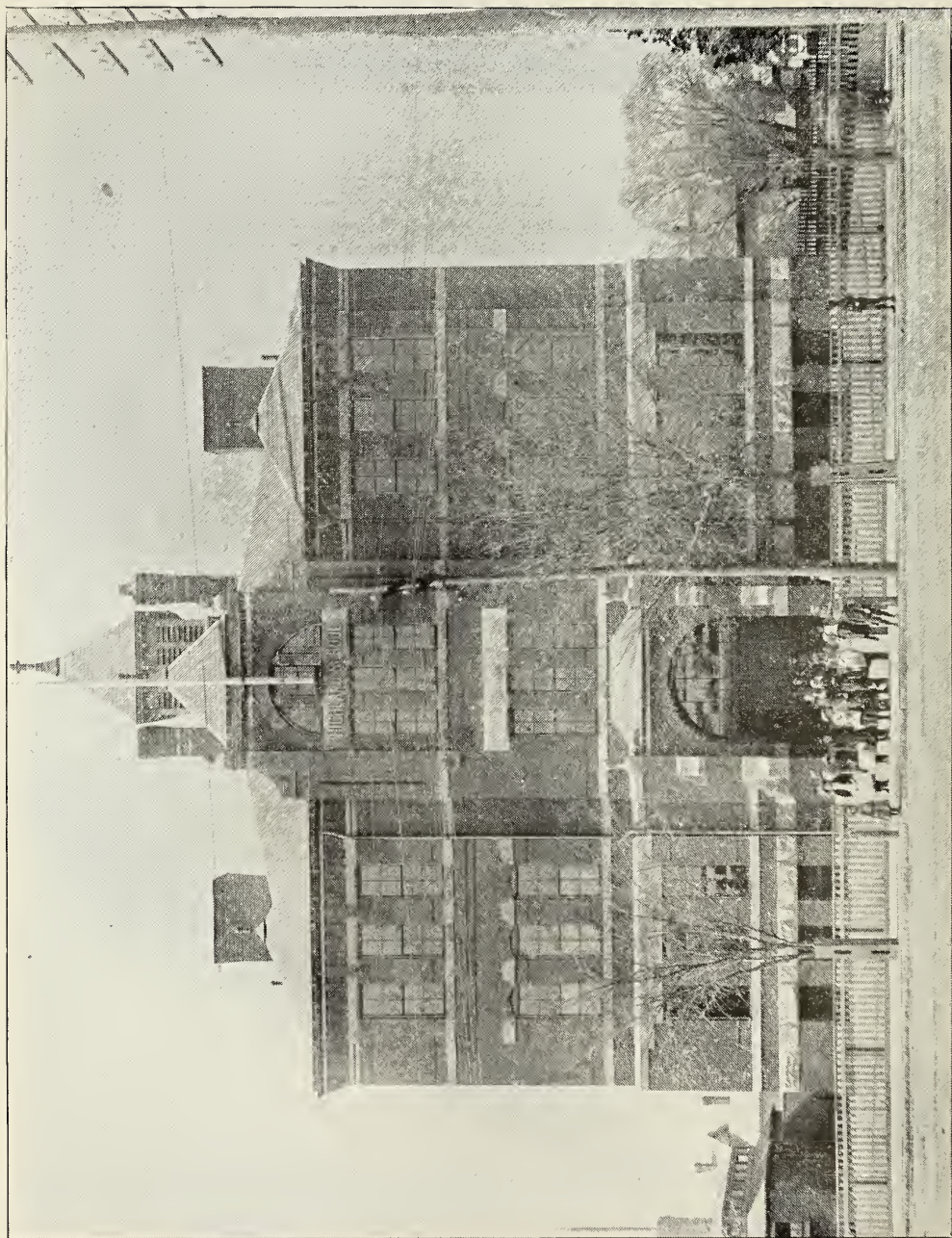
Ida M. Fitzpatrick.
 Lizzie M. Flynn.
 Nettie L. Fox.
 Amy W. Freeman.
 Lucy L. Gordon.
 Mary E. Hagerty.
 Amy L. Hamlet.
 Edith B. Hayes.
 Edith L. Hurd.
 Anna B. Hutchinson.
 Mary G. Kane.
 Lillian F. Kemp.
 Fannie E. Krueger.
 Sarah J. Lamont.
 E. Blanche Learned.
 Grace L. Little.
 Mary A. Lyman.
 Almena J. Mansir.

Jennie S. Mills.
 Ella H. Nelson.
 Alice M. Norton.
 Florence E. Noyes.
 Janet S. Ogilvie.
 Bessie D. Pratt.
 Mabel C. Reed.
 Mercy W. Sanborn.
 Laura M. Stone.
 Elizabeth M. Sutherland.
 Janie M. Thompson.
 Carolyn E. Vreeland.
 Louise A. Wallon.
 Jennie E. Watson.
 Alice A. Welsh.
 Nellie M. Whipple.
 Eunice L. York.

MORSE SCHOOL.

Robert L. Baker.
 Oscar Arthur Bengston.
 George Howard Bodge.
 Bertha M. Brett.
 Esther C. Cathcart.
 Ernest Wilson Christie.
 George A. Clark.
 Daniel W. Connors.
 Alice E. Crane.
 Gilford Tilden Currier.
 Mary A. Dunham.
 Florence E. V. Flemming.
 Zepherine L. Fletcher.
 Charles W. Goodrich.
 Benjamin A. Hodgdon.
 Clara Antoinette Howard.
 Martha E. Keating.
 Grace K. Le Bosquet.
 Ada T. C. Leighton.
 Benjamin W. Makant.
 Peter F. Manning.
 John P. Marchant.
 Nellie G. McConnachie.
 Edward B. McGirr.
 Philip F. Moran.

Ethel Florence Morang.
 Mabel E. Morrill.
 Ada C. Murch.
 Carrie V. Osborn.
 Arthur C. Pearson.
 Nathan Clinton Proctor.
 Edwin C. F. Reed.
 Josephine M. Sargent.
 A. Edward Scott.
 Edwin C. Scranton.
 Mary E. Seitz.
 Richard Joseph Shea.
 Edgar Chapin Smith.
 Ruth Pearl Smith.
 Christopher W. Sorensen.
 John Arvid Thörnquist.
 Arthur W. Turner.
 William H. Waterman.
 Anna B. West.
 Irving J. Wetherbee.
 Oscar Merritt Wheelock.
 Bessie May Whitney.
 Elizabeth Louise Wisdom.
 Harriet Barnes Wisdom.



HIGHLAND SCHOOL.

HIGHLAND SCHOOL.

Nicholas A. Baldwin.
Wallace L. Benjamin.
A. Marguerite Brown.
Mabel H. Brown.
Mary F. Bolger.
Esther E. Carey.
Nina Cummings.
Florence G. Cutler.
John C. Dowd.
Fannie C. Downs.
Edith M. Duhig.
Edward V. Fitzgerald.
Maud F. Freethy.
Ruth M. Howe.
Alice L. Jansson.
Annie K. Joscelyn.
Henry D. Jouett.
Emma G. Kretschmar.
Mena F. Kretschmar.
Charles W. Lavers.
Ilma A. Leman.
Della W. Marden.
Louis A. Merry.

Addie I. Morton.
Cheever E. Nichols.
Clara L. Nicholas.
Mabel L. Nicholson.
Geneva E. Phillips.
Ethel G. Richardson.
Bessie A. Roberts.
Grace S. Russell.
Viola B. Russell.
Ernest G. Shumway.
Jessie A. Skinner.
Percy H. Skinner.
Edith L. Studley.
Harry C. Thorpe.
Abbie M. Tribble.
Maud C. Valentine.
Emma F. Vello.
George H. Vello.
Susan M. Vincent.
Alice S. Wass.
Herbert L. Waters.
Frances S. Wood.

IN CONCLUSION,

I am pleased to state that the work of the schools has progressed steadily on; that all our teachers are full of courage and ambitious to make their work tell for the highest interests of the children committed to their charge. To them I extend my congratulations and thanks for their untiring zeal. To the board, and to all the members individually, I wish to express my sincere regard and my high appreciation of their interest, encouragement, and cordial co-operation and support.

Respectfully submitted,

CLARENCE E. MELENEY,

Superintendent.

APPENDIX.

EXPENDITURES BY THE SCHOOL BOARD.

Teachers' salaries	\$108,058 81
Salaries of officers	\$3,750 00
Water and light	1,064 40
Text-books and charts	3,827 09
Writing-books	297 63
Drawing-books and material	1,321 93
Stationery and supplies	1,538 77
Printing	496 32
Miscellaneous	900 67
Total school contingent	13,196 81
	\$121,255 62

TABLE SHOWING THE NUMBER OF SCHOOLS, TEACHERS, AND PUPILS, THE NUMBER IN THE NINTH CLASS, AND THE AVERAGE NUMBER TO A SCHOOL IN THE SEVERAL DISTRICTS IN DECEMBER.

DISTRICTS.	No. of Schools.	No. of Teachers.			No. of Pupils.	No. in Ninth Class.	Average No. to a School.
		1	2	3			
East Somerville	28	2	28	4	1,354	85	48.4
Prospect Hill	55	3	55	2	2,435	127	44.3
Winter Hill	23	1	23	1	1,156	49	50.0
Spring Hill	26	1	26	4	1,239	64	47.7
West Somerville	16	1	16	1	763	80	47.7
	148	8	148	12	6,947	405	46.9

- 1. — Principals of large grammar schools.
- 2. — Regular teachers.
- 3. — Assistants.

REPORT OF THE SCHOOL COMMITTEE.

DISTRICTS.	SCHOOLS.	Material.	No. Rooms.	When Built.	When Improved.	How Heated.	Ventilation.	Sanitation.	Grounds.
City	High	Brick	10	1871	-	I. S.	None	Poor	Good
East Somerville	Prescott	Brick	12	1867	1889	D. & I. S.	Fair	Good	Brick
"	Edgerly	Brick	12	1871	-	+ F. Not	yet in	operat'n.	Good
"	Davis	Wood	4	1884	1892	F.	Poor	Good	Poor
Prospect Hill	Charles G. Pope	Brick	12	1891	-	* F.	Good	Good	Good
"	Prospect Hill	Wood	6	1848	-	F.	None	Fair	Good
"	Bennett	Wood	4	1868	-	Stoves	None	Poor	Poor
"	Jackson	Wood	4	1861	-	Stoves	None	Poor	Poor
"	Brastow	Wood	2	1861	-	Not in	use.	Poor	Poor
"	Oren S. Knapp	Brick	8	1889	-	+ F.	Good	Good	Poor
"	Webster	Wood	4	1868	-	F.	Poor	Poor	{ (unfin'd)
"	L. V. Bell	Brick	13	1874	-	D. St.	None	Fair	Fair
"	Cummings	Wood	4	1884	-	F.	Poor	Fair	Good
Winter Hill	Forster	Brick	12	1866	1890	D. & I. S.	Good	Good	Poor
"	Jacob T. Glines	Brick	8	1891	-	+ F.	Good	Good	Good
"	Bingham	Brick	4	1886	-	D. & I. S.	Poor	Fair	Unfinished
Spring Hill	Morse	Brick	12	1869	1889	+ F.	Good	Good	Good
"	Beech-street	Wood	2	1872	-	Stoves	None	Poor	Good
"	Spring Hill	Wood	1	1850	-	Stoves	None	Poor	Poor
"	Franklin	Wood	4	1846	-	Stoves	None	Poor	Poor
"	Harvard	Wood	1	1851	-	Stoves	None	Poor	Poor
"	Burns	Brick	4	1886	-	D. & I. S.	Poor	Fair	Good
West Somerville	Cedar-street	Wood	2	1843	-	Stoves	None	Fair	Good
"	Highland	Brick	12	1880	1891	* F.	Good	Good	Poor
"	Lincoln	Wood	4	1885	-	D. & I. S.	Fair	Good	Fair

F. stands for furnaces.

D. and I. S., direct and indirect steam.

* Smead system.

† Smith system.

‡ Fuller & Warren system.

In schools where I indicate the ventilation poor, there is a pretence of ventilation by means of small shafts, which do not draw, or do so very little.

TABLE SHOWING THE NAME, LOCATION, DATE OF ERECTION, ESTIMATED VALUE, CAPACITY, ETC.,
OF THE SEVERAL SCHOOL BUILDINGS.

DISTRICTS.	SCHOOLS.	LOCATION.	When Built.	No. Feet in Lot.	Estimated Value.	No. of Rooms.	No. of Classes.	No. of Grammar Classes.	No. of Primary Classes.
East Somerville	High	Highland Avenue	1871	-	\$44,000	10	4	-	-
"	Prescott	Myrtle Street	1867	21,444	42,000	12	12	8	4
"	Edgerly	Cross Street	1871	26,428	54,317	12	12	8	4
"	Davis	Tufts Street	1884	38,152	20,475	4	4	1	3
Prospect Hill	L. V. Bell	Vinal Avenue	1874	23,396	43,000	13	13	9	4
"	Cummings	School Street	1884	11,300	15,357	4	4	1	3
"	Brastow	Medford Street	1861	10,019	6,250	2	-	-	-
"	O. S. Knapp	Concord Square	1889	24,517	32,975	8	8	4	4
"	Webster	Webster Avenue	1868	11,050	8,300	4	4	1	3
"	Charles G. Pope	Washington Street	1891	27,236	64,891	12	12	8	4
"	Prospect Hill	Washington Street	1848	25,313	20,600	6	6	5	1
"	Bennett	Joy Street	1868	20,560	8,300	4	4	-	4
"	Jackson	Poplar Street	1861	11,212	8,300	4	4	1	3
Winter Hill	Forster	Sycamore Street	1866	27,499	39,422	12	12	8	4
"	J. T. Glines	Jaques Street	1891	28,800	47,208	8	7	4	3
"	Bingham	Lowell Street	1886	21,017	15,105	4	4	1	3
Spring Hill	Morse	Summer Street	1869	29,109	58,031	12	12	9	3
"	Beech-street	Beech Street	1872	6,000	4,750	2	2	-	2
"	Spring Hill	Beech Street	1850	4,991	1,700	1	1	-	1
"	Franklin	Somerville Avenue	1846	33,017	14,300	4	4	2	2
"	Harvard	Beacon Street	1851	9,810	2,600	1	1	-	1
"	*Burns	Cherry Street	1886	16,080	15,250	4	4	2	2
"	Cedar-street	Cedar Street	1843	-	800	2	2	-	2
West Somerville	Highland	Highland Avenue	1880	23,260	53,307	12	12	8	4
"	Lincoln	Broadway, Clarendon Hill	1885	17,662	15,487	4	4	2	2
					636,725	162	152	82	66

* Receives pupils from both the Spring Hill and the West Somerville Districts.

TEACHERS.

	MALE.	FEMALE.	TOTAL.
Number of teachers in High School	3	10	13
Number of teachers in grammar grades (including two assistants)	1	83	84
Number of teachers in primary grades (including ten assistants)	—	76	76
Number of principals of large grammar schools . .	7	1	8
Teachers of music	1	1	2
Teachers of sewing	—	2	2
Teacher of drawing	—	1	1
TOTAL	12	174	186

SCHOOLS AND TEACHERS.

SCHOOLS.	TEACHERS.	WHERE EDUCATED.	Salaries.	When Elected.
High . . .	George L. Baxter . .	Harvard College . . .	\$2,400	1867
" . . .	Frank M. Hawes . .	Tufts College	1,800	1879
" . . .	Charles T. Murray . .	Dartmouth College . .	1,400	1887
" . . .	Sarah W. Fox . . .	High School, Taunton.		
		Instruction in classics and German abroad . .	1,200	1868
" . . .	Fannie W. Kaan . .	Salem Normal School .	850	1882
" . . .	Eudora Morey . . .	Bridgewater Normal Sch'l	850	1882
" . . .	Bertha L. Brown . .	Colby University . . .	775	1892
" . . .	Mary M. Kingsbury .	Boston University . . .	775	1892
" . . .	M. Isabel Goldthwaite	Boston University . . .	775	1893
" . . .	Mrs. Lena Gilbert . .	Darmstadt and Versailles	700	1893
" . . .	Helen H. Wadsworth	Boston University . . .	700	1893
" . . .	Alice E. Sawtelle . .	Colby University . . .	775	1893
Prescott . .	G. A. Southworth . .	Chicago, Ill., and Lowell (Mass.) High School .	1,900	1873
" . . .	Anna M. Bates . . .	Salem Normal School .	700	1874
" . . .	Adelaide Reed . . .	Bridgew'r Normal School	650	1877
" . . .	Emma M. Cate . . .	High School, Winchester	600	1882
" . . .	Abbie A. Anderson .	Canton Training School .	600	1878
" . . .	Amelia I. Sears . . .	Westfield Normal School	600	1873
" . . .	Grace L. Shaw . . .	Quincy Training School .	600	1892
" . . .	Catherine T. Brown .	Somerville High School .	600	1868
" . . .	Clara Taylor . . .	Somerville High School .	600	1871
" . . .	Sarah E. Pratt . . .	Bridgewater Nor'l School	600	1877
" . . .	Elgina M. Plummer .	High School, Boston . .	600	1877
" . . .	Louise E. Pratt . . .	Somerville High School .	600	1889
" . . .	*A. Maude Emerson .	Somerville High School .	275	1890
" . . .	*Frances M. Seymour .	Somerville High School .	350	—

SCHOOLS AND TEACHERS. — *Continued.*

SCHOOLS.	TEACHERS.	WHERE EDUCATED.	Salaries.	When Elected.
Edgerly . .	Charles E. Brainard .	High School, Danielsonville, Conn.	\$1,700	1889
" . . .	Josephine Hills . . .	Framingham Nor'l School	675	1893
" . . .	Anne A. Iathrop . . .	Wellesley College and Harvard Annex . . .	600	1890
" . . .	Annie L. Dimpsey . . .	Ayer High School . . .	600	1891
" . . .	Etta Colburn	Plymouth (N. H.) Normal School	500	1892
" . . .	Gertrude L. Gardner .	R. I. State Normal Sch'l	600	1889
" . . .	Carrie A. Colton . . .	Bridgewater Normal Sch'l	600	1893
" . . .	Emma L. Zeigler . . .	Milton High School . .	600	1891
" . . .	Helen P. Bennett . . .	Plymouth (N. H.) Normal School	600	1890
" . . .	Alice M. Dearing . . .	High School, Lisbon Falls, Me.	600	1890
" . . .	Lillian Nealley . . .	Salem Normal School .	600	1882
" . . .	Clara M. Bagley . . .	Somerville High School .	600	1873
" . . .	Martha M. Power . . .	Quincy Training Class .	400	1891
" . . .	*Florence N. Day . . .	Somerville High School .	275	—
Davis . . .	Lucretia A. Burns . . .	Framingham Nor'l School	675	1882
" . . .	Gertrude A. Earle . . .	Bridgewater Normal Sch'l	600	1884
" . . .	Annie J. Richardson .	Winchester High School	600	1889
" . . .	Priscilla A. Merritt .	Salem Normal School .	600	1885
" . . .	*Nettie M. Orne	Somerville High School .	350	—
" . . .	*Carrie T. Lincoln . . .	Somerville High School .	275	—
L. V. Bell . .	Fred W. Shattuck . . .	Dartmouth College . .	1,800	1890
" . . .	May E. Berry	Somerville High School .	675	1880
" . . .	Emma F. Schuh	Somerville High School .	600	1874
" . . .	Nellie S. Dickey	Quincy Training School .	600	1889
" . . .	Mary A. Bradford . . .	Mt. Holyoke Seminary .	600	1888
" . . .	Anna L. Dickerman . .	Bridgewater Normal Sch'l	600	1890
" . . .	Vyra L. Tozier	Gorham (Me.) Nor'l Sch'l	600	1892
" . . .	Mabel S. Totman . . .	Weymouth High School	600	1892
" . . .	Mary S. Rinn	Somerville High School .	600	1889
" . . .	Anna L. Alger	Framingham Nor'l School	500	1891
" . . .	Ines M. Dernier	Salem Normal School . .	600	1891
" . . .	Martha E. Daniels . . .	Somerville High School .	500	1891
" . . .	Eliza L. Schuh	Somerville High School .	600	1882
" . . .	Eula M. Byrns	Somerville High School .	350	1892
Cummings .	Lydia J. Page	Somerville High School .	675	1869
" . . .	Fannie L. Gwynn	Salem Normal School .	600	1886
" . . .	Ida F. Fillebrown . . .	Somerville High School .	600	1888
" . . .	Annie Coffin	Somerville High School .	600	1884
O. S. Knapp .	Harry N. Andrews . . .	Bridgewater Normal Sch'l	1,500	1890
" . . .	Abbie C. Hunt	Ipswich Female Seminary	675	1873
" . . .	Emma Frye	R. I. Normal School . .	600	1891
" . . .	Dorcas C. Higgins . . .	Quincy Training School .	600	1891
" . . .	Annie E. Robinson . . .	Somerville High School .	600	1876

*Assistant.

SCHOOLS AND TEACHERS. — *Continued.*

SCHOOLS.	TEACHERS.	WHERE EDUCATED.	Salaries.	When Elected.
O. S. Knapp .	Abbie A. Gurney . .	Bridgewater Nor'l School	\$600	1888
" .	Lena G. Allen . . .	Somerville High School .	600	1884
" .	Minnie A. Perry . .	Salem Normal School .	500	1891
" .	Lucia Alger	Bridgewater Nor'l School	600	1889
" .	*Miriam Cavanagh . .	Salem Normal School .	200	1892
" .	*M. Louise Sanderson .	Miss A. L. Page's Kindergarten Normal . . .	200	1892
Webster . .	Clara B. Parkhurst .	Salem Normal School .	675	1889
" . .	Nellie F. Sheridan . .	Somerville High School .	600	1888
" . .	Annie L. Savage . . .	Salem Normal School .	600	1873
" . .	Mary C. Friend . . .	Miss Symonds' Kindergarten Normal . . .	400	1892
Chas. G. Pope	George M. Wadsworth,	Brown University . . .	1,700	1891
" "	Florence A. Chaney .	Hermon High Sch'l, N. Y.	675	1892
" "	Harriet M. Clark . .	Salem Normal School .	600	1893
" "	Alice I. Norcross . .	Watertown High School	600	1885
" "	Frances A. Wilder . .	High Sch'l and Academy .	600	1874
" "	Lizzie W. Parkhurst .	Gloucester Training Sch'l	600	1885
" "	Jane Parker	Salem Normal School .	600	1892
" "	Carrie E. Cobb . . .	Taunton High School . .	600	1887
" "	Ellen P. Longfellow .	Framingham Normal Sch'l	500	1891
" "	Maria Miller	Somerville High School .	600	1869
" "	Lillian C. Albee . . .	High School, No. Attleboro'	600	1888
" "	Lydia E. Morrill . .	Somerville High School .	600	1892
" "	Maizie E. Blaikie . .	Somerville High School .	500	1891
Prospect Hill .	Helen Tincker . . .	Mt. Holyoke Seminary and Salem Normal School .	800	1872
" "	Emma L. Nason . . .	Salem Normal School .	600	1891
" "	Clara B. Sackett . .	Westfield Normal School	600	1891
" "	Grace Emerson . . .	Farmington (Me.) Normal School	600	1892
" "	Mary C. Jones	Gorham (Me.) Nor'l Sch'l	600	1891
" "	Blanche Seabury . .	Kindergarten Nor'l Sch'l	500	1892
Bennett . .	Mary B. Smith . . .	Maine Wes. Seminary .	675	1885
" . .	Annie G. Sheridan . .	Salem Normal School . .	600	1886
" . .	Isadore E. Taylor . .	Somerville High School .	600	1883
" . .	Minnie Wiggins . . .	Kraus' Normal Kindergarten School	600	1892
Jackson . .	Annie E. McCarty . .	Somerville High School .	675	1880
" . .	Jeannette M. Billings .	Quincy Training School .	600	1892
" . .	Annie E. Crimmings .	Somerville High School .	600	1884
" . .	Lena B. Blaikie . . .	Bridgewater Nor'l School	350	1893
" . .	*Annie W. Hatch . . .	New Britain Nor'l School	275	1892
Forster . .	John S. Hayes . . .	Phillips Exeter Academy,	1,800	1878
" . .	Mary E. Northup . .	High School, Centreville,	675	1878
" . .	Mary E. Stiles . . .	Farmington Nor'l School,	675	1883
" . .	Jennie L. Thompson .	Plymouth (N. H.) Normal School	600	1892

* Assistant.

SCHOOLS AND TEACHERS. — *Continued.*

SCHOOLS.	TEACHERS.	WHERE EDUCATED.	Sala- ries.	When Elected.
Forster . .	Elizabeth A. Page . .	Plymouth (N. H.) Normal School	\$600	1890
" . .	Lizzie F. Clement . .	Seminary, Tilton, N. H. .	600	1884
" . .	Addie S. Winnek . .	Salem Normal School .	600	1883
" . .	Lucy K. Hatch . . .	Castine (Me.) Nor'l Sch'l,	600	1892
" . .	Alice A. Batchelor . .	Northboro' High School .	600	1877
" . .	Martha H. Pennock . .	Somerville High School .	600	1873
" . .	Annie S. Gage . . .	Somerville High School .	600	1883
" . .	Harriet A. Brown . .	Westfield Normal School,	600	1890
" . .	Grace Shorey . . .	Salem Normal School . .	300	1892
J. T. Glines	Mrs. Cora E. Dimpsey	Boston University . . .	800	1890
" . .	M. Frances Guptill . .	Elliott (Me.) Academy .	600	1869
" . .	Nellie A. Boynton . .	Framingham Nor'l Sch'l,	600	1891
" . .	Annie J. Reed . . .	Boston Normal School .	500	1891
" . .	Margaret A. Orr . .	Bridgewater Normal Sch'l	500	1891
" . .	Florence E. Baxter . .	Somerville High School .	350	1891
" . .	Emma Burckes . . .	Somerville High School .	400	1890
Bingham . .	Nora F. Byard . . .	Somerville High School .	675	1884
" . .	Luetta M. Wescott . .	Gorham (Me.) Nor'l Sch'l,	600	1892
" . .	Ruby A. Johnson . .	Boston Normal School .	600	1892
" . .	Belle J. Tift . . .	R. I. State Normal School,	600	1892
" . .	*Mabel E. Mansir . .	Somerville High School .	200	1891
Morse . .	Mina J. Wendell . .	High and Training Sch'ls, Woburn	1,600	1882
" . .	Sarah S. Waterman . .	Bridgewater Nor'l School	675	1887
" . .	Stella Hall	Salem Normal School .	675	1884
" . .	Pauline S. Downs . .	Cooper Union, New York City	600	1872
" . .	†Ella F. Gould . . .	Lowell High School . .	600	1882
" . .	‡Nellie A. Hamblin . .	Bridgewater Nor'l School,	600	—
" . .	†Amy C. Hudson . .	Somerville High School .	600	1885
" . .	‡Mrs. Maria F. Hill . .	Castine Normal School .	600	—
" . .	Anna E. Sawyer . .	Somerville High School .	600	1873
" . .	Vacancy . . . . .	. . . . .	—	—
" . .	Mary A. Haley . . .	Boston High School . .	600	1867
" . .	Lizzie E. Hill . . .	N. H. State Normal Sch'l,	600	1891
" . .	Mary E. Bosworth . .	N. H. State Normal Sch'l,	650	1882
" . .	Ella P. McLeod . . .	Gloucester Training Sch'l,	600	1888
" . .	Annabel M. Perry . .	Somerville High School .	350	1891
" . .	*Hattie I. Cottrell . .	Boston Normal School .	350	1892
" . .	*Hattie C. Wheel . .	Plymouth (N. H.) Normal School	350	1892
" . .	*Grace B. Tibbitts . .	Cambridge High School .	275	1890
Beech-street	Emma T. Tower . . .	Somerville High School .	600	1890
" . .	Florence B. Ashley . .	Somerville High School .	600	1887
Spring Hill .	Hattie E. Read . . .	Miss Symonds' Kindergar- ten Normal	400	1892
Franklin . .	Hattie A. Hills . . .	Somerville High School .	675	1874

* Assistant.

† On leave of absence.

‡ Substitute.

SCHOOLS AND TEACHERS. — *Concluded.*

SCHOOLS.	TEACHERS.	WHERE EDUCATED.	Salaries.	When Elected.
Franklin . .	Anna C. Damon . . .	Worcester Normal School	\$600	1879
" . .	Ella M. Coops . . .	Gloucester Training Sch'l	600	1892
" . .	Caroline S. Plimpton .	Southbridge, Mass. . .	600	1889
Harvard . .	Carrie A. Fowle . . .	Salem Normal School .	350	1892
" . .	*Mabel Blaikie . . .	Quincy Training School .	200	1892
Burns . .	Laura J. Brooks . . .	Providence	675	1883
" . .	Minnie S. Turner . . .	Somerville High School .	600	1885
" . .	Annie L. Brown . . .	Cambridge High School .	600	1885
" . .	Florence M. Hamlin .	Somerville High School .	600	1889
Cedar-street .	Elizabeth G. Boardman	Salem Normal School .	625	1891
" " . .	Mary E. Lacy	Somerville High School .	350	1890
Highland . .	George E. Nichols . .	Dartmouth College . .	1,800	1877
" . .	M. Alice Paul	Somerville High School .	675	1879
" . .	Jennie S. Wescott . .	Gorham Normal School .	675	1892
" . .	Mabel A. Jepson . . .	Framingham Normal Sch'l	600	1892
" . .	S. Adelaide Blood . .	Salem Normal School .	600	1882
" . .	Annie R. Cox	State Nor'l School, N. H.	600	1883
" . .	Grace M. Clark . . .	Salem Normal School .	500	1893
" . .	Jennie C. Frazier . . .	Boston Normal School .	600	1887
" . .	Sarah E. Pray	Somerville High School .	600	1878
" . .	Hallie M. Hood	Somerville High School .	600	1884
" . .	Jennie M. Horner . . .	Somerville High School .	500	1888
" . .	Agnes M. Ward	Bridgewater Nor'l School	600	1892
" . .	Lucretia C. Sanborn .	N. H. Normal School and Boston Kindergarten .	600	1888
Lincoln . .	H. F. Hathaway . . .	Bridgewater Nor'l School	800	1890
" . .	Carrie E. Fay	Oberlin College	600	1889
" . .	Charlotte F. Mott . .	Private School, Wadding- ton, N. Y.	600	1886
" . .	Eliza H. Lunt	Concord High School . .	600	1890
" . .	*Mary A. Joyce	Albany (N. Y.) Nor'l Sch'l	425	1891
Music . .	S. Henry Hadley . . .	Somerville High School .	1,333	1868
" . .	Mrs. Gish Garwood . .	. . . . .	500	1892
Drawing . .	Augusta L. Balch . . .	Mass. Normal Art School	700	1892
Sewing . .	Mrs. C. M. Coffin . . .	Nantucket High School .	600	1888
" . .	Mary L. Boyd . . . .	. . . . .	600	1888

* Assistant.

PUPILS.

Number of persons in the city on the first day of May last, between five and fifteen years of age	7,191
Number between eight and fourteen years of age	4,446

	High School.	Grammar and Prim. Schools.	Total.
Whole number registered during the year	521	8,599	9,120
Average whole number	510	6,525	7,035
Average attendance	484	6,124	6,608
Per cent. of attendance	95	93.8	93.9
Number cases of tardiness	—	3,181	3,181
Number cases of dismissal	—	2,523	2,523
Number cases of punishment	—	702	702
Number pupils in attendance in January	507	6,602	7,109
Number pupils in attendance in December	549	6,947	7,496
Average number of pupils to a teacher	42.4	47	46.6
Number pupils over fifteen years of age	476	315	791
Number pupils between 8 and 14 years of age	6	4,769	4,775

TABLE OF PUPILS BY GRADES.

(Number registered in December.)

Grades.	Class.	No. of Teachers.	Boys.	Girls.	Total.	Average Age.		No. Promoted to Higher Grade in June.	No. Double Promotion.
						Yrs.	Mos.		
High . .	Fourth year	13	33	52	85	18	2	—	—
" . .	Third "		34	81	115	17	2	—	—
" . .	Second "		43	82	125	16	7	—	—
" . .	First "		78	146	224	15	7	—	—
			188	361	549				
Grammar	Ninth . . .	9	199	205	404	14	10	334	—
" .	Eighth . . .	10	213	227	440	14	—	388	6
" .	Seventh . . .	13	337	287	624	13	2	483	37
" .	Sixth . . .	*15	368	320	688	12	1	554	14
" .	Fifth . . .	*18	407	341	748	11	4	623	22
" .	Fourth . . .	19	453	381	834	10	2	727	46
		84	1,977	1,761	3,738				
Primary .	Third . . .	*18	487	416	903	9	—	724	39
" .	Second . . .	†20	547	451	998	7	9	792	28
" .	First . . .	‡38	708	600	1,308	6	3	833	36
		76	1,742	1,467	3,209				
Total	. . . . .	**173	3,907	3,589	7,496				

* Including one assistant.

‡ Including seven assistants.

† Including two assistants.

** Besides eight principals of buildings.

REPORT OF THE SCHOOL COMMITTEE.

TABLE SHOWING THE AGES OF THE CHILDREN IN THE SEVERAL GRADES OF THE
PRIMARY AND GRAMMAR SCHOOLS.

GRADE.	5 YEARS Old.		6 YEARS Old.		7 YEARS Old.		8 YEARS Old.		9 YEARS Old.		10 YEARS Old.		11 YEARS Old.		12 YEARS Old.		13 YEARS Old.		14 YEARS Old.		15 YEARS Old.		16 YEARS Old.		17 YEARS Old.		18 YEARS Old.	
	Boys.	Girls.	Boys.	Girls.	Boys.	Girls.	Boys.	Girls.	Boys.	Girls.	Boys.	Girls.	Boys.	Girls.	Boys.	Girls.	Boys.	Girls.	Boys.	Girls.	Boys.	Girls.	Boys.	Girls.	Boys.	Girls.	Boys.	Girls.
First	237	209	270	251	123	99	40	23	5	3	4	4	2	-	1	1	-	-	-	-	-	-	-	-	-	-	-	-
Second	1	3	118	98	197	175	149	103	55	39	27	16	-	5	6	2	1	-	-	-	-	-	-	-	-	-	-	-
Third	-	-	2	1	57	65	173	158	139	122	66	38	21	17	10	2	4	2	2	-	-	-	-	-	-	-	-	-
Fourth	-	-	-	-	5	4	54	48	160	144	133	118	69	41	33	26	6	7	5	4	-	-	-	-	-	-	-	-
Fifth	-	-	-	-	-	-	1	-	39	41	112	107	108	112	99	47	25	27	16	5	-	-	1	1	-	-	-	-
Sixth	-	-	-	-	-	-	-	-	1	3	48	55	120	94	95	87	66	53	29	28	4	3	1	1	-	-	-	-
Seventh	-	-	-	-	-	-	-	-	-	-	9	5	52	52	104	78	105	79	51	48	16	11	1	2	1	2	-	-
Eighth	-	-	-	-	-	-	-	-	-	-	-	-	5	3	24	27	58	75	62	54	36	32	7	1	1	2	-	-
Ninth	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4	5	31	31	75	70	71	60	21	25	1	9	1	1

EXHIBIT OF THE PUBLIC SCHOOLS.

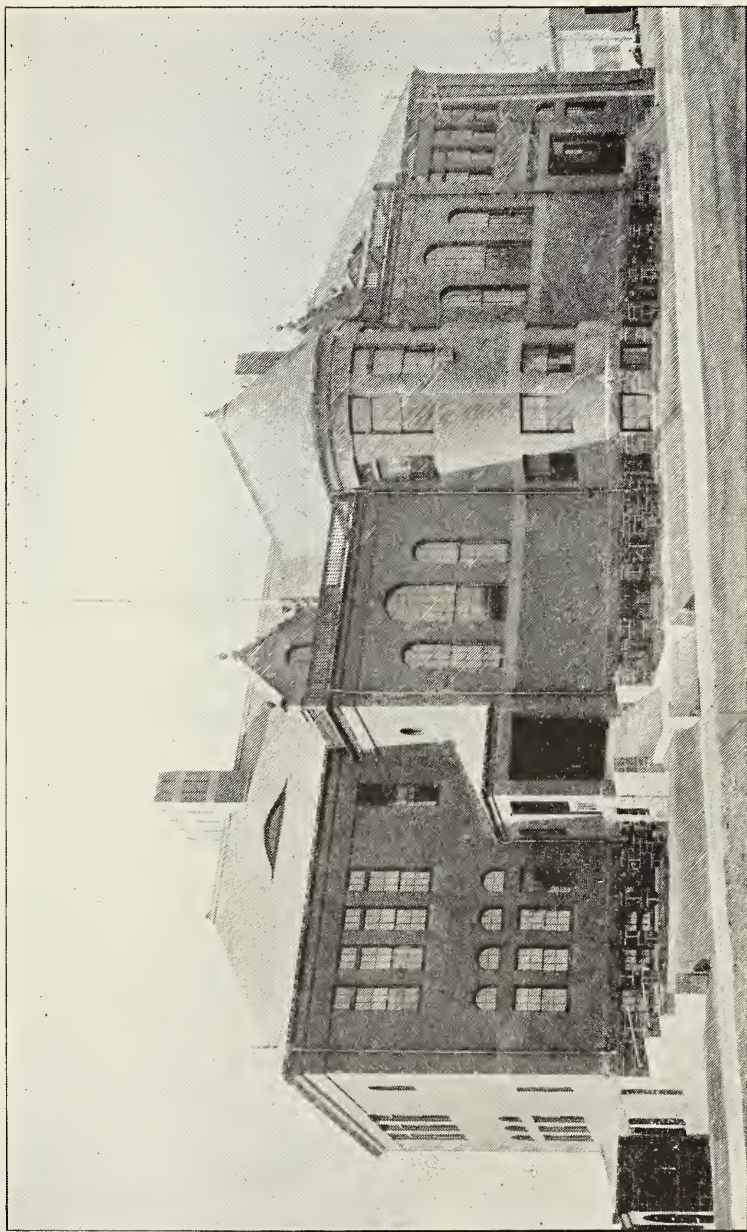
SCHOOLS.	Whole Number Registered During the Year.	Average Membership.	Average Attendance.	Per Cent. of Attendance.	Number Cases of Tardiness.	Number Cases of Dismissal.	Number Cases of Punishment.	Number Pupils in Attendance in January.	Number Pupils in Attendance in December.	Average Number of Pupils to a Teacher in December.	Number of Pupils Over 15 Years of Age.	Number of Pupils between 8 and 14 Years of Age.
High	521	510	484	95.	-	-	-	507	549	42.4	476	6
Prescott	773	561	530	94.	102	64	32	604	582	48.5	29	455
Edgerly	571	502	473	94.	73	171	15	485	530	44.2	44	305
Davis	331	223	209	93.	64	48	16	219	242	67.5	-	123
L. V. Bell	713	553	526	95.	215	324	51	575	608	47.5	33	425
Cummings	262	193	179	94.	127	60	37	199	18.	46.8	-	108
O. S. Knapp	604	448	415	93.	256	239	60	462	484	44.8	32	299
Webster	230	145	136	93	200	55	45	133	158	39.5	-	105.
Charles G. Pope	654	517	486	94	279	193	25	553	498	41.5	28	411
Prospect Hill	125	110	101	92.	41	70	14	85	147	36.5	3	112
Bennett	248	200	181	91.	230	41	64	162	169	42.3	-	71
Jackson	273	161	147	91.	233	15	51	168	180	45.	-	112
Forster	686	569	546	96.	66	129	9	572	599	49.9	53	423
J. T. Glines	362	298	282	95.	81	51	12	282	333	47.6	6	242
Bingham	281	209	196	94.	148	79	27	199	224	56.	-	157
Morse	697	563	527	93.	256	325	57	581	611	51.	46	448
Beech-st. and Spring Hill	137	46	41	91.	199	15	17	78	126	42.	-	25
Franklin	272	187	180	96	55	41	40	190	196	49.	-	185
Harvard	96	59	54	92.	103	10	13	60	63	63.	-	13
Burns	273	213	198	93.	129	63	16	213	185	46.3	1	154
Cedar-street	88	57	52	91.	39	7	19	69	53	29.	-	25
Highland	669	532	498	94.	221	438	50	535	563	46.8	37	386
Lincoln	254	176	167	95.	60	65	12	178	200	50.	3	185
Total	9,120	7,035	6,608	93.9	3,181	2,523	702	7,109	7,496	46.6	791	4,775

STATISTICS OF EVENING SCHOOLS.

(SEASON OF 1892-3.)

	No. Enrolled.	Average Attendance.	No. of Teachers.	No. of Sessions.	Cost of Instruction.	Cost of Janitors' Services.
Prescott School	67	27	3	43	\$219 00	\$46 00
L. V. Bell	133	30	6	41	243 00	41 00
Burns	41	25	3	41	224 00	44 00
Drawing School (Mechanical)	96	60	3	36	396 00	41 00
Total	337	142	15		\$1,082 00	\$172 00

Cost of instruction	\$1,082 00
Cost of supplies and lights	517 10
Cost of janitors' services	172 00
Total cost	\$1,771 10



GLINES SCHOOL.

ADDITIONAL STATISTICS OF THE HIGH SCHOOL.

Whole number of different pupils during the year	742
Largest number at one time	577
Number admitted during the year	242
“ from our Grammar Schools	228
“ from other schools	14
“ graduated	80
“ of graduates who entered college	21
“ of graduates who entered Institute of Technology and Scientific Schools	4
“ who have left during the year exclusive of graduates	120
Whole number at the present time, December, 1892	549
Average number to a teacher	42.2
Number over fifteen years of age	472
“ in course preparatory to college	171
“ pursuing the regular course	277
“ pursuing the English course	101
“ in the first class when it entered the school	187
“ in the first class at the present time	85
“ in the second class when it entered the school	196
“ in the second class at the present time	115
“ in the third class when it entered the school	218
“ in the third class at the present time	125
“ in the fourth class when it entered the school	238
“ in the fourth class at the present time	224

REPORT OF TRUANT OFFICER.

Number of visits to schools	603
“ absences investigated	480
“ cases of truancy	160
“ truants arrested	5
“ sent to House of Reformation	4

PROGRAMMES OF SEWING TEACHERS.

	MRS. COFFIN.	MISS BOYD.
Monday	L. V. Bell School	Forster School.
Tuesday { A. M. . .	O. S. Knapp School	Davis and Edgerly Sch'ls.
{ P. M. . .	Burns School	Edgerly School.
Wednesday . . .	Morse School	Prescott School.
Thursday { A. M. . .	Highland School	Prospect Hill School.
{ P. M. . .	" "	J. T. Glines School.
Friday { A. M. . .	Franklin and Cummings Schools	Charles G. Pope School.
{ P. M. . .	Lincoln School	Charles G. Pope and Bing- ham Schools.

PROGRAMME OF MR. HADLEY, MUSIC TEACHER.
GRADES VI TO HIGH SCHOOL.

	SCHOOLS.
Monday A. M. . . .	. . . . . Forster, J. T. Glines.
Tuesday { A. M. . .	. . . . . L. V. Bell, O. S. Knapp.
{ P. M. . .	. . . . . Morse.
Wednesday { A. M.	. . . . . Lincoln, Highland.
{ P. M.	. . . . . Charles G. Pope.
Friday { A. M. . . .	. . . . . Prescott.
{ M. . . . .	. . . . . High.
{ P. M. . . .	. . . . . Edgerly.

PROGRAMME OF VISITS OF MRS. GARWOOD, MUSIC
TEACHER. — GRADES I TO V.

	Wed.	Thur.	Wed.	Thur.	Wed.	Thur.	Wed.	Thur.	
January	4	5	11	12	18	19	25	26	
February	1	2	8	9	15	16	—	23	
March	8	9	15	16	22	23	29	30	
April	5	6	12	13	19	20	26	27	
May	10	11	17	18	24	25	31	June 1	
June	7	8	14	15	21	22	28	“ 29	
Wednesday	{	A. M.	Prescott . .	Pope . . .	{	Bennett . .	{	Morse.	
		P. M.	Edgerly . .	Glines . .		Jackson . .		Burns.	
Thursday	{	A. M.	{	Knapp . .	Bell . . .	{	Franklin . .	Highland.	
									Harvard . .	{	Beech-st. .
		P. M.	{	Davis . . .	Forster . .	{	Webster . .	{	Bingham.
							Cummings .		Prosp't Hill	Cedar-st.
								Lincoln.	

PROGRAMME OF VISITS OF MISS BALCH, DRAWING TEACHER.

	FEB.	MAR.	APR.	MAY.	JUNE.
Prescott School, Mon., A. M. . .	6	13	10	15	12
Edgerly School, Mon., P. M. . .	6	13	10	15	12
Pope School, Tues., A. M. . . .	7	14	11	16	13
Davis School, Tues., P. M. . . .	7	14	11	16	13
Bell School, Wed., A. M.	8	15	12	17	14
Supplementary Work, Wed., P. M.	8	15	12	17	14
Highland School, Mon., A. M. . .	13	20	17	22	19
Prospect Hill School, Mon., P. M.	13	20	17	22	19
Forster School, Tues., A. M. . .	14	21	18	23	20
Cummings School, Tues., P. M. .	14	21	18	23	20
Knapp School, Wed., A. M. . . .	15	22	19	24	21
Supplementary Work, Wed., P. M.	15	22	19	-	21
Morse School, Mon., A. M. . . .	20	27	24	29	26
Webster School, Mon., P. M. . .	20	27	24	29	26
Bennett School, } Tues., A. M. . .	21	28	25	{ Wed., P. M., 24	27
Jackson School, }					
Franklin School, Tues., P. M. . .	21	28	25	{ Wed., P. M., 31	27
Glines School, Wed., A. M. . . .	-	8, 29	26	31	28
Supplementary Work, Wed., P. M.	-	- 29	26	-	28
Beech-st. School, } Mon., A. M. . .	-	6	3	8	5
Harvard School, }					
Supplementary Work, Mon., P. M.	-	6	3	8	5
Lincoln School, } Tues., A. M. . .	-	7	4	9	6
Burns School, }					
Supplementary Work, Tues., P. M.	-	7	4	9	6
Bingham School, } Wed., A. M. . .	-	{ Wed., P. M. 8	5	10	7
Cedar-st. School, }					
Supplementary Work, Wed., P. M.	-	-	5	10	7

REPORT
OF THE
SOMERVILLE MYSTIC WATER BOARD.

CITY OF SOMERVILLE.

IN BOARD OF ALDERMEN, February 1, 1893.

Referred to the committee on printing, to be printed in the annual reports.
Sent down for concurrence.

GEORGE I. VINCENT, *Clerk.*

IN COMMON COUNCIL, February 1, 1893.

Referred to the committee on printing, to be printed in the annual reports,
in concurrence.

CHARLES S. ROBERTSON, *Clerk.*

CITY OF SOMERVILLE.

OFFICE OF THE WATER BOARD, January 26, 1893.

To His Honor the Mayor and the City Council:—

The Somerville Mystic Water Board submits the following as its nineteenth annual report, being for the year ending December 31, 1892.

COST OF WATER WORKS.

The total cost of works on December 31, 1891 was .	\$537,185 35
Expended during the past year for water-works	
extension	34,863 17
Total cost December 31, 1892	\$572,048 52

It may be doubted if the above figures represent with absolute accuracy the entire cost of the water works, as it is often a nice question of book-keeping to rightly apportion a particular expenditure between extension and maintenance accounts. The difficulty arises chiefly in those cases where it becomes necessary to remove an old water main from a street and substitute therefor a pipe of greater capacity. Such substitutions are frequently made, and it is only possible to determine approximately the percentage of cost properly chargeable to extension account. It has been the invariable rule during the past year to charge to extension account the cost of all

materials used in relaying a street, and to charge the cost of labor to maintenance account. Somerville has expended upon her water works much less, relatively, than many Massachusetts cities, but it should be remembered that she is not the owner of her water supply, storage reservoir, principal pumping station, or main water conduits.

WATER DEBT.

The total outstanding indebtedness of the city, on account of the water works, on the 31st day of December, 1891, was \$375,500.00.

We are glad to be able to report that no addition to the debt has been made during the past year. On the contrary, the income from the water works, together with a balance of \$5,150.80 remaining from 1891, has been sufficient to meet the entire expenditures of the water department, both for maintenance and extension, to pay all the interest accruing during the past year on the funded water debt, and to leave a balance of \$7,061.71 to be applied the present year towards the payment of the principal of the debt.

The above mentioned indebtedness is represented by water loan bonds, nearly all of which are of the denomination of \$1,000.00, maturing at intervals from July 1, 1893, to October 1, 1920. The rates of interest on the bonds are as follows:—

\$10,000.00 draws interest at $5\frac{1}{2}$ per cent. per annum.

105,500.00 “ “ “ 5 “ “ “ “

260,000.00 “ “ “ 4 “ “ “ “

That part of the loan drawing more than four per cent. interest was negotiated several years ago, when rates of interest were much higher than at present.

In the present state of the city's finances, we feel that only the most urgent necessity would justify an increase of the water debt. It seems probable that Somerville will be compelled, in the near future, to meet extraordinary expenditures on account of her water supply. Meanwhile, it is the manifest duty of the Water Board to practice a reasonable economy in expenditures, thereby gradually reducing the water debt and increasing the borrowing capacity of the city when the time for unusual outlays arrives.

RECEIPTS AND DISBURSEMENTS.

The following tables exhibit the receipts and payments for maintenance and extension of the water works during the year 1892 :—

MAINTENANCE.

Received, unexpended balance from appropriation for 1891		\$599 58
Received, amount appropriated by City Council for 1892		20,000 00
Received, transfers from extension account . . .		9,000 00
“ collections from sundry persons for work done		1,414 08
Received, profit on water services		760 14
Paid for maintenance of water works, \$29,275 79		
“ “ work done for sundry persons, 1,414 08		
Balance unexpended at end of year	1,083 93	
	<hr/>	<hr/>
	\$31,773 80	\$31,773 80

EXTENSION.

Received, unexpended balance from appropriation for 1891		\$4,423 41
Received, amount appropriated by City Council for 1892		40,000 00
Received, collections from sundry persons for work done		2,261 47
Paid for extension of water works : \$34,863 17		
“ “ work done for sundry persons, 2,261 47		
Transferred to maintenance account	9,000 00	
Balance unexpended at end of year	560 24	
	<hr/>	<hr/>
	\$46,684 88	\$46,684 88

TABLE SHOWING INCOME FROM WATER RATES AND APPLICATION
OF SAME.

Received from City of Boston fifty per cent. of		
Somerville water rates	\$77,640	91
Balance remaining from 1891	5,150	80
Annual appropriation for water-works		
maintenance	\$20,000	00
Annual appropriation for water-works		
extension	40,000	00
Amount of water loan interest	15,730	00
Balance for reduction of water debt in		
1893	7,061	71
	<hr/>	<hr/>
	\$82,791	71
		\$82,791 71

EXTENSION OF WORKS.

The past year has been one of great activity in real estate development, many new streets having been laid out and built upon. We have, therefore, been obliged to extend the water mains in many sections of the city for the accommodation of the newly improved property. In this work we have laid 8,891 feet of cast-iron pipe, of sizes ranging from three-quarters of an inch to sixteen inches in diameter. There are now about sixty-six miles of water mains in Somerville.

The development of our vacant lands has now progressed so far it seems probable that the demands for extension of water mains will hereafter decrease gradually from year to year. That such a decrease has already commenced is shown by the fact that the length of mains extended in 1892 was 5,489 feet less than in 1891. It is certainly to be hoped that this year's Water Board will be able to expend less money for piping new streets, as a largely increased appropriation is needed for removing the old cement-lined pipe, which is causing so much trouble in all parts of the city.

Twenty thousand and one feet (nearly four miles) of service pipes were laid during 1892, a large increase over the preceding year. Two hundred and forty-six feet of this pipe were laid for fire purposes, and were from two to four inches in diameter. Fire services

were also laid for John P. Squire & Co., in length, eighty-four feet of six and ten inch pipe; and for the New England Dressed Meat & Wool Co., 878 feet of two to ten inch pipe. The amount received for water services was \$10,177.55, the average cost of house services having been \$18.72. The entire cost of all service pipes is collected from the persons applying for the same.

RELAYING WATER MAINS.

During the year 1892 there were laid 23,509 feet (nearly five miles) of cast-iron pipe in place of cement-lined pipe removed. This was considerably more than double the length of pipe relaid in 1891. Included in the above mentioned work was the large and expensive job of taking up the cement pipe in portions of Somerville and Webster avenues, and putting down in its place twelve-inch cast-iron pipe. This enterprise was undertaken at the earnest request of the highway committee, who were desirous that the said avenues should be re-piped before the granite paving blocks were laid. It having been decided by the City Council that an expenditure of nearly \$100,000 should be made for paving the two avenues, we felt that the request of the committee was reasonable and proper. The committee desired that all the underground works and fixtures should be put into such a thoroughly sound condition as to render it unnecessary to disturb the pavement for many years. We found the old pipe in a much better state of preservation than had been expected, and it would probably have done good service for several years. The job was an expensive one for the water department, costing, as it did, nearly \$15,000. Our appropriation was so far reduced by this expenditure that we were obliged to postpone relaying many other streets which were in a far worse condition than the avenues in question.

It is of prime importance that the work of taking up the defective and dangerous cement pipe, and replacing it with cast-iron mains, should be continued from year to year as rapidly as the appropriations therefor will permit. Considerable expense and great annoyance result from the frequent bursting of the old pipes, which have manifestly outlived their usefulness.

We estimate that it will be necessary to relay not less than 40,000 feet of water mains during the present year, and we believe that at least \$70,000 should be appropriated by the City Council for main-

tenance and extension accounts. The income from water rates during 1893 will, doubtless, be sufficient to admit of such an appropriation and leave a balance in excess of the requirements for water loan interest.

There were eighty-six breaks in the old cement-lined pipe during the past year, an increase of fifty-one over the year 1891. The breaks were in pipes of the following-named sizes:—

In 3-inch mains	.	.	.	.	.	.	3 breaks.
" 4-inch "	.	.	.	.	.	.	31 "
" 6-inch "	.	.	.	.	.	.	47 "
" 8-inch "	.	.	.	.	.	.	5 "

From information which we have received from the cities of Boston and Cambridge, it appears that our water pipes are subject to a new danger, resulting from the action of the electric current conveyed by street railway and electric light wires. Specimens of iron and lead pipe may be seen at the City Hall in Cambridge, which exhibit strong proofs of the action of some destructive agent, and we are informed that the damaged pipe had been laid only a short time. The subject is being carefully investigated by experts, and should it be proved that our water mains and services are imperilled by the presence of underground electric currents, prompt measures will be adopted to remedy the evil and to obtain compensation for damage already done. Down to the present time, we have not discovered any injury to water pipes in Somerville which may be fairly attributed to electrical action.

HYDRANTS.

There are now in the city 535 hydrants, eighty-two new ones having been set during the past year, at a cost of about \$4,100.00. From this amount should be deducted about \$380.00, the approximate value of twenty old hydrants which have been removed. There has been a considerable expenditure for general repairs upon hydrants.

We should recommend that the cost of hydrants, together with the expense of setting and repairing the same, be hereafter charged to the appropriation for fire department. Hydrants are for the exclusive use of the fire department, and are a part of the apparatus and fixtures employed solely for the extinguishment of fires. The

fire department very properly pays the water rates assessed for hydrants, and there seems to be no good reason why the hydrants themselves should not come under the same rule. It is proper that our citizens should know just how much it costs from year to year to guard against and extinguish fires, and this cannot be clearly shown so long as the cost of hydrants and their maintenance is charged to the water department.

We would also suggest the propriety of transferring to the committee on fire department of the City Council the duty of purchasing hydrants and the supervision of their setting and maintenance. Under the present system, the committee on fire department has no authority to determine either the style, number, or location of hydrants, but is dependent upon the decision of the Water Board for the carrying out of its recommendations in the matter. Such a practice is analogous to intrusting to the committee on public property the whole duty of purchasing general fire apparatus, a method which no one would think of sanctioning.

The objections to a divided responsibility for, and jurisdiction over, hydrants were emphasized the past year in the case of the Sprague & Hathaway fire in West Somerville. At that fire it was found that at least one of the fire companies was not provided with a proper wrench for opening one of the principal hydrants near Davis square, and, in consequence, there was a slight delay in getting a stream of water on the fire. Notwithstanding the hydrant in question was of an approved pattern and easy to operate, still it was suggested that it was of doubtful expediency to have more than one style of hydrant in use; and the committee on fire department, in its late special report to the City Council, relative to said fire, expressed the opinion that they, the said committee, "should have more voice in the matter of style and location of hydrants." We believe they should have sole voice in the matter; in fact, that they should be intrusted with the selection and purchase of hydrants, should supervise setting and repairing the same, and all expenses connected therewith should be paid from their appropriation.

The subject seems a proper one to receive the attention of the committee on ordinances, as the whole question is now in an unsettled and unsatisfactory condition.

WATER FOR BUSINESS PURPOSES.

During the past year we have been called upon to provide a supply of water for the New England Dressed Meat & Wool Company. This corporation, which has lately commenced operations in our city, is likely to make use of large quantities of water each year, paying therefor an amount which will add materially to the revenue of the water department. We base this prediction upon the fact that similar establishments in the same neighborhood have long been our largest consumers of water. During the year 1892 the North Packing & Provision Company and John P. Squire & Company together paid water rates to the amount of \$16,433.40, one-half of which amount was received by Somerville under the existing water contract with the city of Boston. This was a little more than one-tenth of the entire revenue from water rates.

There may be some question, however, whether future water boards will consider it prudent to take on many more large consumers until assured of an increase of the water supply. As mentioned elsewhere in this report, Mystic lake has been heavily drawn upon for several years, and during the last summer and autumn the water fell so low as to excite grave apprehensions in the minds of those conversant with all the circumstances. It became necessary to resort to the closest inspection to prevent waste and to enforce rigid restrictions as to the use of water upon lawns and in carriage houses. As the water supply is intended primarily for domestic and fire purposes, it would seem that families ought not to be unreasonably restricted in the consumption of water, while large manufacturing and business establishments are allowed to make use of unlimited quantities.

It should also be remembered that the water in the lake becomes more impure as its volume is reduced; or, in other words, that the impurities become more concentrated and offensive as the dilution is diminished.

It would certainly be a great hardship upon our citizens to reduce the quantity and impair the quality of their water supply in order to make large sales of water to manufacturing and business industries.

HIGH-WATER SERVICE.

The high-water service continues to give complete satisfaction, and it now seems surprising that its introduction should have been so long delayed. After two years' observation of the workings of the system, we are able to testify in unqualified terms to the great benefits derived therefrom. The standpipe, boiler, and pump have admirably stood the test of another year's trial, and are now doing excellent work. The appearance of the pump has been greatly improved of late by painting. The inner surface of the standpipe has also been cleaned and painted, at a cost of \$127.38.

No steps have yet been taken toward the purchase of a second boiler or land for an additional standpipe, as suggested in last year's report. Neither of these purchases could be made without an increased appropriation, and we did not feel like asking for that during the past year,—a year in which the funded debt of the city was increased more than \$150,000. It will be wise to act in the matter at the earliest practicable opportunity.

During the present year it will be necessary to enlarge the sheds at the pumping station ; and scales should be erected at the City Farm for weighing coal, water pipe, and other articles used by the water and highway departments. The only scales now owned by the city are located near Union square, and we have found it neither convenient nor economical to weigh out supplies in that part of the city.

WATER SUPPLY.

In our report for the year 1891, we expressed the opinion that it would be unwise for Somerville to enter into negotiations for the purchase of the Mystic water supply, and stated briefly some of the grounds on which the opinion was based. After another year's observation and investigation, with all due respect for the different views entertained by previous water boards, we are still more firmly convinced that the proposed purchase ought not to be made. The State Board of Health continues to express distrust as to the quality

of the water for domestic uses, and the Boston Water Board itself, in a late special report to the Boston City Council, says:—

“Regarding the Mystic water supplied to the people of Charlestown, this board has already expressed the opinion in its annual reports that it is not satisfactory as a permanent source of supply. Charlestown, however, has been piped for the introduction of Cochituate and Sudbury water, which could be turned on at an hour’s notice in case of an unfavorable change in the state of the Mystic supply.”

With such views concerning the future of the Mystic water, it is not surprising that Boston should be desirous of selling its franchise to Somerville. It would, however, be strange if Somerville, in the light of all the facts, should be willing to abrogate her present water contract with Boston, and place her sole dependence for the future upon a water supply which has lost the confidence of those best informed as to its condition and prospects.

There has been no marked change in the quality of the Mystic water during the past year. Analyses, made under the direction of the State Board of Health, show only a slight increase of impurities over the year 1891, and it is believed that this trifling change was not due to any real deterioration of the water, but rather to the fact that the objectionable elements became more concentrated by reason of the diminished quantity of water in the lake. For several months, owing to increased consumption and scanty rain-fall, the water in the lake was unusually low. As Charlestown will soon be transferred from the Mystic to the Cochituate and Sudbury supply, the consumption of Mystic water is not likely to increase for several years.

It has long been known that the Mystic water was not of a high standard of purity. Boston has expended large sums of money for constructing sewers, establishing filtering plants, and for other enterprises calculated to improve the character of the water. These efforts have been of great value, and without them the Mystic supply would long since have been abandoned for domestic uses. A plan is now under consideration by the city of Boston and the town of Winchester for laying out a park along the course of the Abbajona river. If the measure is carried out, Mystic lake will be relieved from some of the most offensive matter now flowing into it. It would seem as if far better and more permanent results might be obtained by Boston

and her suburbs by a large outlay for a new metropolitan water supply coming from a locality remote from centres of population than can be expected from the heavy expenditures made for improvements of present supplies. At least, it might be wise for Boston to unite with adjacent cities and towns in asking the legislature to appoint a commission to thoroughly investigate the subject, and report thereon at an early date. We learn that a bill has been submitted at the present session of the legislature, providing for the appointment by the governor of three persons, one of whom shall be a hydraulic engineer, to consider the whole question of water supply throughout the Commonwealth. By the provisions of the bill very broad scope is given to the investigations of the commissioners, including the question of connecting the water supplies of various cities and towns so that they may be used interchangeably in case of necessity. As the lakes and rivers within the State are, in a general way, the common property of all the people, it would seem feasible and just that some broad plan should be adopted by which no one municipality should obtain undue advantage over its neighbors in securing water rights. We would suggest that authority be given to the city solicitor and the Water Board to represent the interests of Somerville at all hearings which may be given at the State House upon the proposed bill, or other legislation touching the water question.

We cannot resist the conviction that Boston and neighboring municipalities are not giving the searching and intelligent consideration to the water question which its importance demands. It is true that immense sums of money have been expended to procure and improve public water supplies, but the results indicate that much of the work has been hastily and injudiciously performed, and, in particular, that insufficient attention has been given to procuring drinking water of unquestioned purity and wholesomeness. Water is an article of daily consumption by all the people, and its quality, when used as a beverage, should be absolutely above suspicion. Not only the health, but the morals of a community are, in a measure, dependent upon the character of its drinking water. If Nature's beverage was supplied to the public in a pure and palatable condition, the resort to intoxicating and narcotic drinks would be greatly diminished.

No well-informed person believes that the present water supply of Boston, either as to quantity or quality, will meet the requirements of the near future. The watersheds of both the Cochituate and Sud-

bury systems embrace populous towns, whose natural drainage is into the lake and stream from which Boston takes her drinking water. Only a complete and enormously expensive system of sewerage can divert the impurities which now find their way into the water. Should an adequate sewer system be constructed, either the surface water, including street washings, must be allowed to flow in its natural channels, or it must be conducted into the sewers, thereby greatly diminishing the quantity of the water supply. The money which will be required to divert impurities from the Cochituate and Sudbury river waters would go a long way towards securing a supply naturally pure and remote from sources of contamination.

It has often been suggested that Boston might join with other Massachusetts cities and towns in an endeavor to secure a water supply from the "Lake Country" of New Hampshire. Such a plan is certainly worthy of the most careful study and investigation. It is true that great obstacles would need to be overcome and great expense would be incurred in carrying out such a project, but other municipalities have successfully engaged in undertakings of like magnitude. "Modern Athens" may turn to Ancient Rome for examples of wisdom and liberality in furnishing sweet and potable water for the people. In the first century of our era the Emperor Claudius constructed two magnificent aqueducts, one forty-five miles and the other sixty-two miles in length, to convey water to Rome. In modern times many gigantic undertakings have been carried out for the purpose of obtaining an abundance of pure water. Glasgow brings her water from Loch Katrine in an aqueduct thirty-five miles long, in the building of which the most stupendous obstacles were surmounted. Vienna's principal aqueduct is fifty-six and one-half miles in length, while Paris conveys her water through a conduit for a distance of 110 miles. Croton water was introduced into New York in 1842, when the population numbered about 450,000. The Croton aqueduct, which conducts water from Croton lake, or reservoir, to the American metropolis, is nearly forty miles in length.

With the advancement which has been made in the last half century in hydraulic engineering, it would be a comparatively easy task to bring an abundance of water from Lake Winipiseogee to Boston. In the matter of expense, it would, probably, not be more burdensome to the rich New England metropolis and the cities and towns which would gladly join with her in the enterprise than it was

for the city of Portland to take water from Sebago lake. Much of the opposition which would inevitably be encountered from the New Hampshire authorities might possibly be overcome by an arrangement for allowing the cities and towns along the line of the main conduits to share in the supply of water. By the building of capacious reservoirs along the way for the storage of water in times of abundant supply, the injury to riparian rights would be reduced to a minimum.

It is estimated that there is a population of about 900,000 residing within ten miles of the State House. This population is likely to double within the next twenty years. It is the opinion of those best informed on the subject that all the available waters, within what has hitherto been deemed a reasonable distance from Boston, are insufficient for a population of 1,500,000. Confronted with such a condition of things, it would seem as if no time should be lost by Boston and her suburbs in taking preliminary steps towards securing a permanent and satisfactory water supply from a more remote source than has yet been resorted to.

The foregoing suggestions, relative to the general subject of water supply, are incorporated into this report for the purpose of drawing attention to a matter which must soon receive the careful and intelligent consideration of our people. We have discussed the question from the Boston standpoint chiefly, for the reason that Somerville is dependent upon Boston for her water, and the richer and more populous city must take the initiative in any movement for obtaining a new metropolitan water supply.

CONCLUSION.

In conclusion, we desire to thank the superintendent, clerk, engineer, and all other officers and employees of the water department for the fidelity and zeal with which they have performed their various duties and labors during the past year.

ALBION A. PERRY.
GEORGE D. WEMYSS.
GEORGE A. KIMBALL.

SUPERINTENDENT'S REPORT.

To the Somerville Mystic Water Board: —

GENTLEMEN,—The annual report of the superintendent of the Somerville Mystic works is respectfully submitted, giving a detailed account of all work performed during the year 1892. The tables hereto annexed show the sizes and locations of extensions of main pipe and of the pipe relaid, and also the hydrants, standpipes, and drinking fountains set.

The inventory of stock and tools on hand is included.

DISTRIBUTION MAINS.

The most important work done was the taking out of the old eight-inch cement main on Somerville avenue from Cambridge line to Central street, and the laying of twelve-inch cast-iron pipe in its place.

Laterals of cast-iron pipe were laid and connected with the mains in all of the side streets on the line of this pipe, thus removing from the principal business portion of our main thoroughfare an element of great danger, and one causing much anxiety to those having the water works in charge.

TABLE SHOWING THE LOCATION OF MAINS RELAID DURING THE YEAR.

STREET.	FROM.	TO.	Length in Feet.	DIAMETER IN INCHES.	
				New.	Old.
Allen St. . . .	Somerville Ave. .	Southwesterly .	55	8	4
Aldersey St. .	Vinal Ave. . . .	Southeasterly .	29	6	4
Avon St. . . .	School St. . . .	Northwesterly .	19	8	4
Bartlett St. .	Washington St. .	Southerly . . .	3	2	3
Berkeley St. .	School St. . . .	Northwesterly .	22	6	4
Bonner Ave. .	Columbus Ave. .	Washington St. .	382	8	6
*Bonner Ave. .	. . . . .	. . . . .	7	6	—
Bow St. . . .	Somerville Ave. .	Easterly	8	8	6
Carleton St. .	Somerville Ave. .	Southwesterly .	6	6	4
Central St. . .	Somerville Ave. .	Northeasterly .	30	12	12
Charles St. . .	Washington St. .	Southerly . . .	236	6	4
Chestnut St. .	Poplar St. . . .	Southeasterly .	456	6	4
Church St. . .	Somerville Ave. .	Southwesterly .	47	6	4
Church St. . .	Summer St. . . .	Southwesterly .	44	6	4
Columbus Ave.	150 ft. east of Walnut St. . . .	150 ft. east of Bon- ner Ave. . . .	919	8	6
*Columbus Ave.	. . . . .	. . . . .	14	6	—
Dane St. . . .	Somerville Ave. .	Southwesterly .	78	12	6
Dane St. . . .	Washington St. .	Fitchburg R. R.	771	12	6
*Dane St. . . .	. . . . .	. . . . .	11	6	—
Dane Ct. . . .	Dane St.	Easterly	38	6	4
Dickinson St. .	Springfield St. .	Westerly	3	4	4
Fitchburg St. .	Somerville Ave. .	Northeasterly .	6	6	6
Florence St. .	Washington St. .	Northerly	26	8	6
Franklin Ave. .	Washington St. .	Northerly	26	6	3
Franklin Ct. .	Somerville Ave. .	Northeasterly .	6	2	2
Frost Ave. . .	Somerville Ave. .	Southwesterly .	53	8	4
Granite St. . .	Somerville Ave. .	Northeasterly .	31	6	2
Grand View Ave.	Vinal Ave. . . .	15 ft. west of Wal- nut St. . . .	542	6	4
Greenville St. .	Medford St. . . .	Boston St. . . .	403	8	4
*Greenville St. .	. . . . .	. . . . .	15	6	—
Hanson St. . .	Washington St. .	Northerly	3	6	4
Hamlet St. . .	Highland Ave. . .	Southwesterly .	479	6	4
Haskell Ct. . .	Somerville Ave. .	Southwesterly .	11	6	6
Highland Ave.	Walnut St. . . .	Medford St. . . .	569	12	8
Homer Sq. . . .	Bonner Ave. . . .	Westerly	5	6	4
Houghton St. .	Springfield St. .	Southeasterly .	2	6	4
Knapp St. . . .	School St. . . .	Northwesterly .	3	6	4

* Hydrant branch.

TABLE SHOWING THE LOCATION OF MAINS RELAID DURING
THE YEAR. — *Continued.*

STREET.	FROM.	TO.	Length in Feet.	DIAMETER IN INCHES.	
				New.	Old.
Laurel St. . .	Somerville Ave.	Northeasterly .	18	6	4
Linden St. . .	Somerville Ave.	Charlestown St.	{ 343	8	—
			296	6	6
*Linden St. . .	. . . . .	. . . . .	8	4	—
Loring St. . .	Somerville Ave.	Northeasterly .	28	6	4
Malloy Ct. . .	Somerville Ave.	Southwesterly .	85	6	4
Medford St. .	Washington St. .	Highland Ave. .	1,655	12	8
Medford St. .	East side Wash- ington St. . .	West side Wash- ington St. . .	78	10	8
*Medford St. .	. . . . .	. . . . .	{ 13	8	—
			15	6	—
Murray St. . .	Washington St. .	Southerly . . .	222	6	3.
Mt. Vernon St.	Washington St. .	Northerly . . .	36	8	6
Mystic St. . .	Somerville Ave.	Northerly . . .	27	8	4
Newton St. . .	Fitchburg R. R.	Southwesterly .	70	12	4
Oxford St. . .	School St. . .	Northwesterly .	13	6	4
Park St. . . .	Somerville Ave.	Southwesterly .	78	12	6.
Pinckney St. .	Washington St. .	Northerly . . .	29	8	6
Poplar St. . .	Somerville Ave.	Northeasterly .	6	6	6.
Prosp't Hill Ave.	Medford St. . .	Westerly . . .	2	8	6
Prospect St. .	Somerville Ave.	Bennett Ct. . .	{ 100	16	—
			242	6	6
Prescott St. . .	Summer St. . .	Northeasterly .	17	8	6.
Preston St. . .	School St. . .	Northwesterly .	3	6	6.
Putnam St. . .	Summer St. . .	Highland Ave. .	1,346	6	4
*Putnam St. . .	. . . . .	. . . . .	6	4	—
Quincy St. . .	Summer St. . .	Southwesterly .	50	6	4
Quincy St. . .	Somerville Ave.	Northeasterly .	35	6	4
School St. . .	Somerville Ave.	Near Highland Ave.	1,960	10	4
*School St. . .	. . . . .	. . . . .	34	6	—
Sherman St. . .	Somerville Ave.	Southwesterly .	58	6	1
Skehan St. . .	Dane St. . . .	Westerly . . .	24	6	4
Somerville Ave.	Near East Cam- bridge Line .	Northwesterly .	45	6	8
Somerville Ave.	70 ft. west of E. Cambridge Line	Medford St. . .	2,350	12	8
Somerville Ave.	Medford St. . .	Mansfield St. . .	275	16	8
Somerville Ave.	Hawkins St. . .	Carleton St. . .	538	10	8
Somerville Ave.	Carleton St. . .	Central St. . .	2,140	12	8
Somerville Ave.	Fitchburg R. R.	John P. Squire's Works	{ 9	12	6.
			3	8	6.
Somerville Ave.	East side Med- ford St. . . .	West side Med- ford St. . . .	55	14	8

* Hydrant branch.

TABLE SHOWING THE LOCATION OF MAINS RELAID DURING
THE YEAR. — *Concluded.*

STREET.	FROM.	TO.	Length in Feet.	DIAMETER IN INCHES.	
				New.	Old.
*Somerville Ave.	. . . . .	. . . . .	{ 152	6	—
Springfield St. .	Concord Ave. .	Cambridge Line	15	4	—
*Springfield St. .	. . . . .	. . . . .	786	8	4
Summer St. .	Bow St. . . .	School St. . .	12	6	—
*Summer St. .	. . . . .	. . . . .	1,082	10	6
Temple St. . .	Sydney St. . .	Easterly . . .	30	6½	—
Thorpe Pl. . .	Highland Ave. .	Southwesterly .	298	8	8
Vine St. . . .	Somerville Ave.	Southwesterly .	462	6	3
Vinal Ave. . .	Highland Ave. .	Near Aldersey St.	56	6	4
*Vinal Ave. . .	. . . . .	. . . . .	700	8	6
Village St. . .	Dane St. . . .	Northwesterly .	6	6	—
Washington St.	Charlestown Line	Myrtle St. . .	18	6*	4
Washington St.	Dane St. . . .	Beacon St. . .	770	12	8
*Washington St.	. . . . .	. . . . .	688	10	6
Walnut St. . .	Highland Ave. .	Northeasterly .	11	6	—
Warren Ave. . .	Union Sq. . . .	Northeasterly .	15	10	4
Waverly St. . .	Washington St. .	Southerly . . .	15	6	6
Webster Ave. . .	Union Sq. . . .	North line New-	2	4	2
		ton St.	618	12	6
Webster Ave. . .	North line New-	South line New-	28	16	6
	ton St.	ton St.			
Webster Ave. . .	South line New-	Fitchburg R. R.	60	14	6
*Webster Ave. . .	. . . . .	. . . . .	15	6	—

* Hydrant branch.

TABLE SHOWING THE LOCATION OF MAINS EXTENDED
DURING THE YEAR.

STREET.	FROM.	TO.	LENGTH IN FEET.	DIAMETER IN INCHES.
*Alpine St. . . . .	. . . . .	. . . . .	12	4
*Arthur St. . . . .	. . . . .	. . . . .	7	6
Avon St.	Central St.	Southeasterly	187	10
*Berkeley St. . . . .	. . . . .	. . . . .	7	6
Benton Ave.	Hudson St.	Highland Ave.	315	8
Blaikie St.	Somerville Ave.	Northeasterly	128	2
*Broadway . . . . .	. . . . .	. . . . .	10	6
Caldwell Pl.	Washington St.	Southerly	230	1½
*Campbell Pk. . . . .	. . . . .	. . . . .	7	6
Carver St.	Porter St.	Northwesterly	170	6
Chestnut St.	A point 438 ft. s.e. of Poplar St.	Southeasterly	100	6
Cook St.	South Wyatt St.	Westerly	182	6
Cypress St.	Beech St.	Central St.	275	6
*Derby St. . . . .	. . . . .	. . . . .	7	6
Eliot St.	Vine St.	Northwesterly	126	8
Ellington Road	Highland Ave.	Northeasterly	242	6
Elm St.	Kenwood St.	Near Broadway	366	8
*Elm St. . . . .	. . . . .	. . . . .	41	6
†Elmwood St.	A point 475 ft. s.w. of Holland St.	Southwesterly	243	8
*Elmwood St. . . . .	. . . . .	. . . . .	14	6
Fanning Ave.	Highland Ave.	Lexington Ave.	410	8
*Flint St. . . . .	. . . . .	. . . . .	7	6
*Fountain Ave. . . . .	. . . . .	. . . . .	6	6
Gilman Terrace	Pearl St.	Northeasterly	348	4
Glover Circle	Meacham St.	Southeasterly	144	4
Hancock St.	Pipe laid in 1891	Northeasterly	108	6
Hanson Ct.	Hanson St.	Easterly	163	2
Henry Ave.	Highland Ave.	Lexington Ave.	325	6
*Highland Ave. . . . .	. . . . .	. . . . .	{ 14	6
			{ 16	8
Hinckley St.	Angle in street	Southwesterly	106	¾
Jenny Lind Ave.	Pipe laid in 1888	Northwesterly	48	6
*Jenny Lind Ave. . . . .	. . . . .	. . . . .	12	4
Josephine Ave.	Morrison Ave.	Northeasterly	363	6
Kenwood St.	Pipe laid in 1891	Billingham St.	205	8
Kidder Ave.	Pipe laid in 1890	Liberty Ave.	350	6
*Kingston St. . . . .	. . . . .	. . . . .	7	6
Knowlton St.	Pipe laid in 1891	Northeasterly	96	6
*Knowlton St. . . . .	. . . . .	. . . . .	7	6
Lesley Ave.	Highland Ave.	Lexington Ave.	373	8
Lester Pl.	Meacham St.	Northwesterly	217	6
Mansfield St.	Somerville Ave.	Northeasterly	96	16
*Marshall St. . . . .	. . . . .	. . . . .	18	6
*Merriam St. . . . .	. . . . .	. . . . .	7	6

* Hydrant branch.

† Cement pipe.

TABLE SHOWING THE LOCATION OF MAINS EXTENDED
DURING THE YEAR. — *Concluded.*

STREET.	FROM.	TO.	LENGTH IN FEET.	DIAMETER IN INCHES.
Miner St. . .	Pipe laid in 1891	Vernon St. . .	163	6
*Morrison St. . .	. . . . .	. . . . .	7	6
Morton St. . .	Knowlton St. . .	Glen St. . . .	341	6
Mt. Vernon Ave.	Heath St. . . .	Northwesterly .	125	2
*Mt. Vernon St.	. . . . .	. . . . .	8	6
Newton St. . .	East side Web- ster Ave. . . .	West side Web- ster Ave. . . .	24	16
Olive Ave. . .	Linden Ave. . .	Southeasterly .	188	6
Pinckney Pl. .	Pinckney St. . .	Easterly	124	2
Pumping Station	Relief valve . .	18 in. low service main	30 14	1 4
Rossmore St. .	Pipe laid in 1889	Northerly	93	6
*Rossmore St. .	. . . . .	. . . . .	7	6
Sewall Ct. . .	Sewall St. . . .	Southwesterly .	121	2
Somerville Ave.	Mossland St. . .	Northwesterly .	201	6
*Stickney Ave .	. . . . .	. . . . .	7	6
Stone Ave. . .	Somerville Ave.	Northeasterly .	31	6
*Stone Ave. . .	. . . . .	. . . . .	12	6
*Sydney St. . .	. . . . .	. . . . .	6	6
Tennyson St. .	Medford St. . . .	Northeasterly .	240	6
Thorndike St. .	Pipe laid in 1885	Kingston St. . .	330	6
*Thorndike St. .	. . . . .	. . . . .	12	6
*Virginia St. . .	. . . . .	. . . . .	7	6
*Washington St.	. . . . .	. . . . .	52	6
West St. . . .	Highland Ave. . .	Northeasterly .	211	6
*Willow Ave. . .	. . . . .	. . . . .	27	6
Windom St. . .	Summer St. . . .	Elm St.	270	6
Winslow Ave. .	Grove St.	Southwesterly .	125	6

* Hydrant branch.

I would especially call your attention to the condition of pipe in the streets mentioned in the following table. No less than eighty-six breaks occurred during the past year, being an increase of thirty-five breaks over that of last year. When these are uncovered they will be found to be in a perilous condition.

As much as possible of the old cement-lined pipe should be removed each season and cast-iron pipe substituted. By so doing, and by employing strong material for new work, a marked diminution in the number of bursts and leaks will be observable and greater safety secured in case of fire.

There were on these mains the following bursts :—

Three were on the 3-inch mains; 31 were on the 4-inch mains; 47 were on the 6-inch mains; 5 were on the 8-inch mains.

TABLE SHOWING THE LOCATION AND SIZES OF NEW MAINS PROPOSED TO BE LAID IN PLACE OF CEMENT PIPE WHICH IS UNFIT FOR USE.

STREET.	FROM.	TO.	4"	6"	8"	10"	12"	20"
Adams St. . .	High Service . .	Medford St. . .	-	-	600'	-	-	-
Appleton St. .	Willow Ave. . .	Clifton St. . .	-	630'	-	-	-	-
Beech St. . .	Somerville Ave. .	Spring St. . .	-	-	800'	-	-	-
Belmont St. .	Somerville Ave. .	Summer St. . .	-	-	1,300'	-	-	-
Bonair St. . .	Cross St. . . .	Walnut St. . .	-	-	-	1,450'	-	-
Brook St. . .	Cross St. . . .	Glen St. . . .	-	500'	-	-	-	-
Broadway . .	Charlestown Line	Marshall St. .	-	-	-	-	4,800'	-
Chester St. .	Elm St.	Orchard St. . .	-	800'	-	-	-	-
Clifton St. . .	Morrison St. . .	Appleton St. .	-	240'	-	-	-	-
Cottage Ave. .	Chester St. . .	Russell St. . .	-	500'	-	-	-	-
Craigie St. . .	Elm St.	Summer St. . .	-	-	1,250'	-	-	-
Crescent St. .	Washington St. .	Pearl St. . . .	-	650'	-	-	-	-
Cross St. . .	Pearl St. . . .	Tufts St. . . .	-	-	-	-	-	1,100'
Day St. . . .	Davis Sq. . . .	Orchard St. . .	-	-	940'	-	-	-
Dover St. . .	Davis Sq. . . .	Orchard St. . .	-	-	940'	-	-	-
Elm St. . . .	Davis Sq. . . .	Somerville Ave.	-	-	-	-	4,400'	-
Evergreen Ave.	Marshall St. . .	Sycamore St. . .	-	1,320'	-	-	-	-
Grove St. . .	Highland Ave. .	Elm St.	-	-	600'	-	-	-
Hanson St. . .	Vine St.	Durham St. . .	-	550'	-	-	-	-
Herbert St. .	Chester St. . .	Day St.	-	360'	-	-	-	-
Heath St. . .	Temple St. . . .	Moreland St. .	-	-	1,800'	-	-	-
Irving St. . .	Holland St. . . .	Broadway . . .	-	-	1,800'	-	-	-
Meacham St. .	Orchard St. . . .	Dead End . . .	-	-	800'	-	-	-
Marshall St. .	Gilman Sq. . . .	Broadway . . .	-	-	-	1,650'	-	-
Mills St. . .	Walnut St. . . .	Sargent Ave. . .	-	570'	-	-	-	-
Medford St. .	Central St. . . .	School St. . . .	-	-	-	1,525'	-	-
Mossland St. .	Somerville Ave. .	Elm St.	-	-	-	-	350'	-
Newbury St. .	Holland St. . . .	Cambridge Line	-	1,250'	-	-	-	-
Nevada Ave. .	Village St. . . .	Hanson St. . . .	-	200'	-	-	-	-
Newton St. . .	Prospect St. . . .	Webster Ave. .	-	-	-	-	450'	-
Orchard St. .	Russell St. . . .	Meacham St. .	-	-	1,350'	-	-	-
Otis St. . . .	Wigglesworth St.	Cross St. . . .	-	-	1,200'	-	-	-
Oxford St. . .	Central St. . . .	School St. . . .	-	1,330'	-	-	-	-
Park St. . . .	Somerville Ave. .	Beacon St. . . .	-	-	-	-	1,300'	-
Prospect St. .	Washington St. .	Newton St. . .	-	-	-	-	400'	-
Rush St. . . .	Broadway	Flint St. . . .	-	-	-	400'	-	-
Sargent Ave. .	Broadway	Mills St. . . .	-	522'	-	-	-	-
Shawmut St. .	Washington St. .	Cross St. . . .	-	-	550'	-	-	-
Shawmut Pl. .	Shawmut St. . .	Allston St. . .	-	200'	-	-	-	-
Spring St. . .	Somerville Ave. .	Summer St. . .	-	-	1,200'	-	-	-
Somerville Ave.	Central St. . . .	Elm St.	-	-	-	-	1,900'	-
Summer St. .	Willow Ave. . . .	Elm St.	-	-	1,100'	-	-	-
Temple St. . .	Broadway	Jaques St. . . .	-	-	1,000'	-	-	-
Tufts St. . . .	Cross St.	Washington St.	-	-	-	-	-	1 000'
Tyler St. . . .	Dane St.	Vine St.	504'	-	-	-	-	-
Village St. . .	Dane St.	Vine St.	370'	-	-	-	-	-
Vine St. . . .	Somerville Ave. .	Village St. . . .	-	-	800'	-	-	-
Walnut St. . .	Pearl St.	Bonair St. . . .	-	-	800'	-	-	-
Wallace St. . .	Holland St. . . .	Broadway . . .	-	-	1,350'	-	-	-
Warren Ave. .	Columbus Ave. .	Bow St.	-	650'	-	-	-	-
Wigglesworth St.	Bonair St. . . .	Pearl St. . . .	-	740'	-	-	-	-
Willow Ave. .	Appleton St. . .	Elm St.	-	-	-	-	2,075'	-
Washington St.	Medford St. . .	Bonner Ave. . .	-	-	-	-	-	1 100'

HYDRANTS.

During the past year the hydrants have received especial care, and a large number of them have been thoroughly repaired.

In extremely cold weather they have required constant attention and much labor to insure their proper condition for use in case of fire.

The number of hydrants taken out and repaired and reset,	20
New hydrants set	82
Hydrants removed	20
Making a net increase of	62

Fourteen have been repaired at the shops with new valves and gaskets, and others have had new standard bolts and nuts, and have been set in new locations.

The whole number of hydrants in the city is 535, of which twenty are private hydrants.

The following hydrants were set during the year:—

- Adams street, corner of Broadway.
- Alpine street, 280 feet east of Cedar street.
- Alpine street, 670 feet east of Cedar street.
- Arthur street, 29 feet south of Broadway.
- Berkeley street, 212 feet west of Hersey street.
- Bonner avenue, opposite Homer square.
- Broadway, 50 feet east of Mt. Pleasant street.
- Campbell park, 255 feet west of Meacham street.
- Charles street, 183 feet south of Washington street.
- Columbus avenue, 35 feet west of Stone avenue.
- Columbus avenue, 150 feet east from Bonner avenue.
- Chestnut street, 538 feet south of Poplar street.
- Chestnut street, 246 feet south of Poplar street.
- Dane street, 172 feet north of Washington street.
- Dane street, 55 feet north of Skehan street.
- Derby street, 399 feet east of Temple street.
- Elm street, near Broadway.
- Elm street, 25 feet west of Russell street.

Elmwood street, 450 feet south of Holland street.
Elm street, corner of Cedar street.
Fountain avenue, 280 feet west of Glen street.
Greenville street, 148 feet north of Boston street.
Greenville street, 33 feet north of High street.
Highland avenue, 72 feet west of Vinal avenue.
Highland avenue, 278 feet west of Walnut street.
Hamlet street, 321 feet south of Highland avenue.
Jaques street, 362 feet east of Temple street.
Jenny Lind avenue, 16 feet north of Vernon street.
Jenny Lind avenue, 467 feet north of Vernon street.
Kingston street, 402 feet west of Meacham street.
Kingston court, 214 feet west of Meacham street.
Knowlton street, opposite Morton street.
Malloy court, 16 feet south of Somerville avenue.
Marshall street, 200 feet south of Broadway.
Medford street, opposite Chester avenue.
Medford street, 34 feet south of Central square.
Medford street, 13 feet west of Prospect Hill avenue.
Merriam street, 42 feet north of Charlestown street.
Morrison street, 13 feet west of Newbern street.
Miner street, 142 feet north of Vernon street.
Mt. Vernon street, corner of Broadway.
Rossmore street, 260 feet south of Washington street.
School street, 61 feet north of Knapp street.
School street, 93 feet south of Preston street.
School street, 100 feet south of Summer street.
School street, 14 feet north of Avon street.
School street, 88 feet north of Oxford street.
Somerville avenue, 100 feet north of Cambridge line.
Somerville avenue, 260 feet north of Franklin court.
Somerville avenue, 100 feet north of Fitchburg R. R..
Somerville avenue, 86 feet south of Poplar street.
Somerville avenue, 121 feet south of Medford street.
Somerville avenue, 88 feet west of Quincy street.
Somerville avenue, 113 feet east of Dane street.

Somerville avenue, 105 feet east of Carleton street.
Somerville avenue, 40 feet west of Lowell street.
Somerville avenue, 181 feet west of Mossland street.
Springfield street, 140 feet south of Concord avenue.
Springfield street, 21 feet south of Dickinson street.
Springfield street, 120 feet north of Cambridge line.
Stickney avenue, 212 feet west of Marshall street.
Summer street, 8 feet east of School street.
Summer street, opposite east line of School street.
Summer street, 6 feet west of Vinal avenue.
Sydney street, 412 feet east of Temple street.
Thorpe place, 280 feet south of Highland avenue.
Thorndike street, south of B. & L. R. R.
Virginia street, 45 feet west of Aldrich street.
Washington street, 45 feet north of Beacon street.
Washington street, 69 feet west of Crescent street.
Washington street, corner of Mt. Vernon street.
Washington street, 50 feet east of Shawmut street (south side).
Webster avenue, 96 feet south of Union square.
Webster avenue, 12 feet south of Everett street.
Webster avenue, 25 feet north of Newton street.
West street, corner of Highland avenue.
West street, 144 feet north of Highland avenue.
Willow avenue, 250 feet north of Highland avenue.
Putnam street, 308 feet north of Summer street.
Putnam street, 608 feet north of Summer street.
Putnam street, 116 feet south of Highland avenue.
Runey street, 18 feet west of Flint avenue.

The following hydrants were abandoned during the year : —

Broadway, near Adams street.
Chestnut street, 430 feet south of Poplar street.
Columbus avenue, 142 feet east of Bonner avenue.
Dane street, 112 feet south of Skehan street.
Elm street, corner of Cedar street.

Highland avenue, 87 feet east of Vinal avenue.
Highland avenue, opposite West street.
Jaques street, opposite Glines School.
Jenny Lind avenue, 16 feet north of Vernon street.
Kingston court, dead end.
Medford street, 18 feet east of Prospect Hill avenue.
Merriam street, 15 feet north of Charlestown street.
School street, 6 feet south of Avon street.
School street, 15 feet south of Preston street.
Somerville avenue, corner of School street.
Somerville avenue, 30 feet south of Poplar street.
Somerville avenue, 40 feet west of Lowell street.
Springfield street, 20 feet south of Houghton street.
Washington street, corner of Mt. Vernon street.
Webster avenue, 12 feet south of Everett street.

Table SHOWING THE LOCATION OF EXISTING
HYDRANTS January 1, 1893.

Adams street, corner of Broadway.
Adams street, 240 feet south of Broadway.
Adams street, 300 feet north of Medford street.
Adrian street, 118 feet east of Marion street.
Adrian street, 220 feet south of Joseph street.
Allen street, 9 feet north of Charlestown street.
Albion street, 78 feet west of Central street.
Albion street, 312 feet west of Central street.
Albion street, 234 feet east of Lowell street.
Albion street, 421 feet east of Cedar street.
Alpine street, 280 feet east of Cedar street.
Alpine street, 670 feet east of Cedar street.
Allston street, 12 feet west of Shawmut place.
Appleton street, corner of Clifton street.
Arthur street, 29 feet south of Broadway.
Auburn avenue, 519 feet west of Cross street.
Austin street, 82 feet south of Mystic avenue.

HYDRANT LOCATION.

Austin street, 66 feet north of Benedict street.
Avon street, 585 feet west of School street.
Beacon street, 300 feet east of west end of street.
Beacon street, 84 feet east of Harris street.
Beacon street, 46 feet west of Sacramento street.
Beacon street, 15 feet west of Kent street.
Beacon street, corner of Ivaloo street.
Beacon street, 72 feet east of Park street.
Beacon street, 22 feet east of Durham street.
Beacon street, 260 feet east of Washington street.
Beacon street, 219 feet west of Cooney street.
Beacon street, 222 feet west of Buckingham street.
Beech street, corner of Spring street.
Belmont street, 554 feet south of Highland avenue.
Belmont street, 228 feet north of Pitman street.
Belmont street, 255 feet north of Summer street.
Benedict street, 34 feet east of Mystic street.
Berkeley street, 8 feet east of Central street.
Berkeley street, 213 feet east of Hersey street.
Berkeley street, 28 feet west of School street.
Berkeley street, 212 feet west of Hersey street.
Billingham street, 129 feet north of William street.
Bonair street, opposite Autumn street.
Bonair street, 62 feet east of Walnut street.
Bonner avenue, opposite Homer square.
Boston street, 90 feet west of Bigelow street.
Boston street, 213 feet east of Bigelow street.
Boston street, north corner of High street.
Bow street, 125 feet west of Union square.
Bow street, junction of Summer street.
Bow street, opposite Bow-street place.
Bowdoin street, 68 feet north of Fremont avenue.
Broadway, 50 feet east of Mt. Pleasant street.
Broadway, 28 feet west of George street.

HYDRANT LOCATION.

Broadway, 21 feet west of Broadway place.
Broadway, corner of Glen street.
Broadway, 15 feet west of Cross street.
Broadway, 33 feet west of Walnut street.
Broadway, 250 feet west of Edmands street.
Broadway, 174 feet west of Grant street.
Broadway, opposite Marshall street.
Broadway, corner of School street.
Broadway, opposite School street.
Broadway, corner of Thurston street.
Broadway, 240 feet east of Central street.
Broadway, 13 feet west of Norwood avenue.
Broadway, 324 feet west of Hinckley street.
Broadway, 424 feet west of Hinckley street.
Broadway, opposite Cedar street.
Broadway, 180 feet west of Wilson avenue.
Broadway, 40 feet west of Packard avenue.
Broadway, 180 feet east of Endicott avenue.
Broadway, 175 feet east of North street.
Broadway, 415 feet west of North street.
Broadway, east corner of Mt. Vernon street.
Broadway, west corner of Franklin street.
Brook street, 18 feet west of Rush street.
Buckingham street, west corner of Dimick street.
Bennett street, 150 feet east of Prospect street.
Cameron avenue, opposite Mead street.
Cameron avenue, 438 feet south of Mead street.
Cedar street, 289 feet north of Elm street.
Cedar street, 90 feet north of Sawtell avenue.
Cedar street, 50 feet north of Hall street.
Cedar street, 14 feet north of Highland avenue.
Cedar street, 14 feet north of Albion street.
Cedar street, 124 feet south of Warwick street.
Cedar street, 50 feet north of Clyde street.

HYDRANT LOCATION.

Cedar street, 24 feet south of Murdock street.
Cedar street, 270 feet south of Broadway.
Cedar street, 20 feet south of Broadway.
Central street, 75 feet south of Broadway.
Central street, 6 feet north of Forster street.
Central street, 9 feet north of Vernon street.
Central street, 200 feet south of Vernon street.
Central street, 8 feet north of Albion street.
Central street, corner of Summer.
Chandler street, 16 feet south of Broadway.
Chandler street, 216 feet north of Park avenue.
Chauncey avenue, 9 feet north of Jaques street.
Chester street, 15 feet north of Chester place.
Chestnut street, 538 feet south of Poplar street.
Chestnut street, 246 feet south of Poplar street.
Church street, 9 feet south of Summer street.
Church street, 327 feet south of Summer street.
Church street, 16 feet south of Somerville avenue.
City stables, east end of yard.
Clark street, 200 feet west of Newton street.
Clyde street, south corner of Murdock street.
Campbell park, 255 feet west of Meacham street.
Charles street, 183 feet south of Washington street.
Columbus avenue, 150 feet east of Bonner avenue.
Columbus avenue, 123 feet west of Bonner avenue.
Columbus avenue, 35 feet west of Stone avenue.
Columbus avenue, 8 feet east of Walnut street.
Concord avenue, 90 feet east of Concord square.
Concord avenue, 30 feet east of Springfield street.
Concord avenue, 20 feet east of Wyatt street.
Conwell avenue, 465 feet west of Curtis street.
Craigie street, 555 feet south of Summer street.
Craigie street, 400 feet north of Somerville avenue.
Crescent street, opposite Hadley street.

HYDRANT LOCATION.

Cross street, corner of Otis street.
Cross street, corner of Pearl street.
Cross street, 16 feet north of Gilman street.
Curtis street, 146 feet north of Professors' row.
Curtis street, opposite Raymond avenue.
Curtis street, 100 feet north of Fairmount avenue.
Cutter street, 309 feet west of Webster street.
Cutter street, 290 feet south of Broadway (south line).
Dane street, 9 feet north of Tyler street.
Dane street, 112 feet south of Skehan street.
Dane street, 55 feet north of Skehan street.
Dane street, 172 feet north of Washington street.
Dane court, 510 feet east of Dane street.
Dartmouth street, 312 feet south of Broadway.
Dartmouth street, 57 feet south of Evergreen avenue.
Dartmouth street, 180 feet north of Medford street.
Day street, 30 feet south of Herbert street.
Day street, corner of Orchard street.
Dell street, 275 feet west of Glen street.
Delaware street, 270 feet east of Aldrich street.
Derby street, 399 feet east of Temple street.
Dickinson street, 12 feet east of Beacon street.
Dover street, 326 feet south of Davis square.
Dover street, 71 feet north of Orchard street.
Durham street, 54 feet south of Hanson street.
Elm street, corner of Broadway.
Elm street, opposite Jacob street.
Elm street, 69 feet south of William street.
Elm street, 6 feet south of Morrison street.
Elm street, 10 feet north of Winter street.
Elm street, 86 feet west of Chester street.
Elm street, 18 feet west of Grove street.
Elm street, 90 feet east of Tenney street.
Elm street, 58 feet east of Willow avenue.

HYDRANT LOCATION.

Elm street, 6 feet west of Cherry street.
Elm street, 9 feet west of Cedar avenue.
Elm street, corner of Linden avenue.
Elm street, 275 feet west of Craigie street.
Elm street, 25 feet west of Russell street.
Elmwood street, 450 feet south of Holland street.
Eliot street, corner of Park street.
Endicott avenue, 430 feet south of Broadway.
Evergreen avenue, 8 feet east of School street.
Everett avenue, 200 feet east of Dana street.
Everett street, opposite Emerson street.
Fairmount avenue, 590 feet west of Curtis street.
Farragut avenue, 258 feet south of Broadway.
Farragut avenue, 550 feet south of Broadway.
Fiske avenue, 126 feet east of Hinckley street.
Fitchburg street, 400 feet east of Linwood street.
Florence street, 222 feet south of Perkins street.
Florence street, 486 feet north of Washington street.
Forster street, opposite Tennyson street.
Francesca avenue, 305 feet east of Elm street.
Franklin street, 14 feet north of Arlington street.
Franklin street, 80 feet south of Webster street.
Franklin street, 165 feet south of Pearl street.
Franklin street, 87 feet south of Oliver street.
Franklin street, 96 feet south of Palmer avenue.
Franklin street, 29 feet north of Washington street.
Fresh Pond Ice Company, in yard.
Fremont street, 86 feet north of Main street.
Fremont street, 350 feet north of Main street.
Fountain avenue, 280 feet west of Glen street.
Garden court, 475 feet south of Somerville avenue.
Gibbens street, 206 feet west of Central street.
Gibbens street, 129 feet west of Benton avenue.
Gilman street, 240 feet east of Walnut street.

HYDRANT LOCATION.

Gilman street, 180 feet east of Aldrich street.
Glen street, 9 feet north of Brooks street.
Glen street, corner of Flint street.
Gorham street, corner of Howard street.
Grand View avenue, 288 feet east of Vinal avenue.
Green street, 200 feet south of Summer street.
Greenville street, 148 feet north of Boston street.
Greenville street, 33 feet north of High street.
Hamlet street, 321 feet south of Highland avenue.
Hammond street, 30 feet west of Dickinson street.
Hanson street, 40 feet north of Skehan street.
Harvard street, 15 feet north of Beech street.
Hawkins street, 50 feet east of Lake street.
Heath street, 51 feet west of Temple street.
Heath street, 320 feet west of West street.
Heath street, corner of Bond street.
Heath street, corner of Moreland street.
Hawthorne street, 340 feet west of Willow avenue.
Henderson street, 159 feet north of Wilton avenue.
Herbert street, 192 feet east of Day street.
High street, 300 feet west of Boston street.
Highland avenue, corner of Medford street.
Highland avenue, corner of Walnut street.
Highland avenue, 72 feet west of Vinal avenue.
Highland avenue, 278 feet west of Walnut street.
Highland avenue, opposite Prescott street.
Highland avenue, 318 feet west of School street.
Highland avenue, 114 feet east of Sycamore street.¹
Highland avenue, corner of Central street.
Highland avenue, 28 feet west of Belmont street.
Highland avenue, 180 feet west of Lowell street.
Highland avenue, corner of Porter street.
Highland avenue, corner of Eastman place.
Highland avenue, 36 feet east of Fanning avenue.

HYDRANT LOCATION.

Highland avenue, corner of Willow avenue.
Highland avenue, 6 feet west of Grove street.
Highland avenue, 60 feet east of Davis square.
Holland street, 42 feet west of Dover street.
Holland street, 36 feet east of Winter street.
Holland street, 105 feet west of Irving street.
Holland street, 77 feet east of Elmwood street.
Holland street, 117 feet west of Cameron avenue.
Holland street, 80 feet east of Newbury street.
Homer square, west side of square.
Houghton street, 200 feet east of Springfield street.
Hudson street, 292 feet east of Lowell street.
Hudson street, 8 feet east of Porter street.
Irving street, 6 feet south of Broadway.
Irving street, 300 feet south of Broadway.
Irving street, 420 feet north of Holland street.
James street, 100 feet north of Pearl street.
Jaques street, 9 feet north of Grant street.
Jaques street, 362 feet east of Temple street.
Jaques street, 190 feet west of Temple street.
Jaques street, 300 feet east of Bond street.
Jay street, 90 feet north of Howard street.
Joy street, 36 feet south of Washington street.
Joy street, 440 feet south of Washington street.
Joy street, 285 feet north of Poplar street.
Jenny Lind avenue, 16 feet north of Vernon street.
Jenny Lind avenue, 467 feet north of Vernon street.
Jenny Lind avenue, corner of Vernon street.
Kent court, 285 feet west of Kent street.
Kingman court, 300 feet south of Washington street.
Kingston street, 402 feet west of Meacham street.
Knowlton street, opposite Morton street.
Lake street, 205 feet west of Hawkins street.
Lake street, corner of Carleton street.

HYDRANT LOCATION.

Laurel street, 300 feet south of Summer street.
Laurel street, 8 feet north of Park place.
Lawrence street, 9 feet south of Richardson street.
Lincoln street, opposite Arlington street.
Lincoln avenue, 224 feet west of Mt. Vernon street.
Linden street, 33 feet north of Charlestown street.
Linden street, 557 feet south of Somerville avenue.
Linden avenue, 515 feet north of Elm street.
Line street, 500 feet west of Cooney street.
Linwood street, 416 feet south of Washington street.
Linwood street, 225 feet north of Poplar street.
Linwood street, 55 feet south of London street.
Linwood street, corner of Linwood place.
London street, 400 feet east of Linwood street.
Loring street, 288 feet north of Somerville avenue.
Lowell street, corner of Fiske avenue.
Lowell street, 195 feet south of Richardson street.
Lowell street, opposite Vernon street.
Lowell street, 665 feet south of Summer street.
Madison street, 480 feet west of School street.
Main street, 116 feet west of Mt. Vernon avenue.
Main street, corner of Moreland street.
Maple street, 220 feet east of Medford street.
Maple street, 9 feet north of Poplar street.
Marshall street, corner of Evergreen avenue.
Marshall street, opposite Howe street.
Marshall street, 200 feet south of Broadway.
Malloy court, 16 feet south of Somerville avenue.
Medford street, junction of Broadway.
Medford street, 16 feet from corner of Central street.
Medford street, 16 feet east of Sycamore street.
Medford street, 46 feet east of Thurston street.
Medford street, corner of School street.
Medford street, junction of Pearl street.

HYDRANT LOCATION.

Medford street, 8 feet east of Greenville street.
Medford street, 13 feet west of Prospect Hill avenue.
Medford street, 34 feet south of Central square.
Medford street, opposite Chester avenue.
Medford street, 236 feet south of Washington street.
Medford street, 78 feet north of Maple street.
Medford street, 21 feet north of Somerville avenue.
Medford street, 98 feet north of Fitchburg R. R.
Medford street, 70 feet south of Fitchburg R. R.
Medford street, 30 feet north of Ward street.
Medford street, 91 feet south of Ward street.
Medford street, 93 feet north of Warren street.
Medford street, 17 feet south of Warren street.
Medford street, 80 feet southeast of Grand Junction R. R.
Merriam street, 42 feet north of Charlestown street.
Melrose street, 600 feet north of Mystic avenue.
Mondamin court, junction of Harrison street.
Montrose street, 417 feet west of School street.
Moore street, 21 feet north of Mead street.
Morrison street, 13 feet west of Newbern street.
Morrison street, 195 feet west of Clifton street.
Morrison street, 33 feet west of Grove street.
Miner street, 142 feet north of Vernon street.
Murdock street, 200 feet east of Cedar street.
Mt. Vernon street, 9 feet north of Pearl street.
Mt. Vernon street, corner of Broadway.
Mt. Pleasant street, 276 feet south of Broadway.
Myrtle street, 418 feet north of Washington street.
Myrtle street, 82 feet south of Pearl street.
Mystic avenue, corner of Union street.
Mystic avenue, near Medford line.
Nashua street, 215 feet south of Wilton street.
Newbury street, 570 feet south of Holland street.
Newbury street, 965 feet south of Holland street.

HYDRANT LOCATION.

North street, 440 feet north of Raymond avenue.
North street, 190 feet north of City Bound No. 19.
North Union street, 300 feet north of Mystic avenue.
Oak street, 390 feet west of Prospect street.
Oakland avenue, 230 feet west of Marshall street.
Oliver street, 15 feet east of Glen street.
Orchard street, 9 feet west of Russell street.
Orchard street, 9 feet east of Chester street.
Orchard street, corner of Blake street.
Otis street, 9 feet east of Dana street.
Oxford street, 358 feet west of School street.
Oxford street, 100 feet west of Hersey street.
Park avenue, 90 feet west of Elm street.
Park street, 69 feet north of Fitchburg R. R.
Park street, 155 feet north of Beacon street.
Partridge avenue, 26 feet north of Medford street.
Partridge avenue, 126 feet south of Medford street.
Partridge avenue, 450 feet south of Medford street.
Partridge avenue, 290 feet north of Vernon street.
Pearl street, corner of Pinckney street.
Pearl street, 69 feet west of Hillside avenue.
Pearl street, 18 feet east of Delaware street.
Pearl street, 9 feet west of Glen street.
Pearl street, 30 feet west of Dana street.
Pearl street, corner of Wigglesworth street.
Pearl street, corner of Walnut street.
Pearl street, 120 feet east of Marshall street.
Perkins street, opposite Myrtle street.
Perkins street, opposite Lincoln street.
Perkins street, 63 feet east of Perkins place.
Perkins street, 21 feet east of Mt. Pleasant street.
Pinckney street, 345 feet south of Pearl street.
Pleasant avenue, 290 feet east of Vinal avenue.
Prescott street, 326 feet south of Highland avenue.

HYDRANT LOCATION.

Prescott street, 582 feet south of Highland avenue.
Prescott street, 257 feet north of Summer street.
Preston street, 375 feet west of School street.
Poplar street, 21 feet west of Joy street.
Porter street, corner of Mountain avenue.
Porter street, 24 feet north of Williams' court.
Professors' row, 140 feet west of College avenue.
Professors' row, 300 feet west of College avenue.
Professors' row, 580 feet west of College avenue.
Professors' row, 188 feet east of Packard avenue.
Professors' row, 305 feet west of Packard avenue.
Prospect Hill avenue, 9 feet north of High street.
Prospect street, 135 feet north of Bennett street.
Prospect street, corner of Webster avenue.
Prospect street, 210 feet south of Oak street.
Putnam street, 116 feet south of Highland avenue.
Putnam street, 608 feet north of Summer street.
Putnam street, 308 feet north of Summer street.
Quincy street, 315 feet south of Summer street.
Quincy street, corner of Somerville avenue.
Richardson street, 12 feet west of Henderson street.
Richdale avenue, opposite Thurston street.
Robinson street, 333 feet west of Central street.
Rogers' avenue, 300 feet north of Morrison avenue.
Rossmore street, 260 feet south of Washington street.
Runey street, 18 feet west of Flint avenue.
Sanborn avenue, 60 feet east of Walnut street.
Sargent avenue, 36 feet north of Mills street.
School street, 108 feet south of Maple avenue.
School street, 8 feet south of Montrose street.
School street, 88 feet north of Oxford street.
School street, 88 feet north of Avon street.
School street, 100 feet south of Summer street.
School street, 93 feet south of Preston street.

HYDRANT LOCATION.

School street, 61 feet north of Knapp street.
Sewall street, 324 feet west of Grant street.
Somerville avenue, 181 feet west of Mossland street.
Somerville avenue, 195 feet east of Beacon-street bridge.
Somerville avenue, 500 feet east of Beacon-street bridge.
Somerville avenue, 120 feet west of Elm street.
Somerville avenue, 40 feet west of Lowell street.
Somerville avenue, corner of Spring street.
Somerville avenue, opposite Spring street.
Somerville avenue, 15 feet west of Beech street.
Somerville avenue, 9 feet east of Central street.
Somerville avenue, 15 feet west of Laurel street.
Somerville avenue, 100 feet west of Loring street.
Somerville avenue, 113 feet east of Dane street.
Somerville avenue, 185 feet west of Hawkins street.
Somerville avenue, 88 feet west of Quincy street.
Somerville avenue, 105 feet east of Carleton street.
Somerville avenue, 400 feet west of Prospect street.
Somerville avenue, 83 feet west of Prospect street.
Somerville avenue, 30 feet west of Linden street.
Somerville avenue, 12 feet east of Mystic street.
Somerville avenue, 121 feet south of Medford street.
Somerville avenue, 86 feet south of Poplar street.
Somerville avenue, 490 feet north of Fitchburg R. R.
Somerville avenue, 100 feet north of Fitchburg R. R.
Somerville avenue, south side of Fitchburg R. R.
Somerville avenue, 260 feet north of Franklin court.
Somerville avenue, corner of Franklin court.
Somerville avenue, 100 feet north of Cambridge line.
Summer street, 160 feet east of Cutter avenue.
Summer street, 6 feet east of Cherry street.
Summer street, 6 feet east of Cedar street.
Summer street, corner of Porter street.
Summer street, corner of Lowell street.

HYDRANT LOCATION.

Summer street, corner of Spring street.
Summer street, corner of Harvard street.
Summer street, 54 feet east of Preston street.
Summer street, 200 feet west of School street.
Summer street, 8 feet east of School street.
Summer street, opposite Putnam street (east line).
Summer street, 6 feet west of Vinal avenue (west line).
South street, 234 feet west of Medford street.
South street, corner of Emery street.
South street, corner of Earle street.
Springfield street, 140 feet south of Concord avenue.
Springfield street, 21 feet south of Dickinson street.
Springfield street, 120 feet north of Cambridge line.
Summit avenue, 120 feet west of Walnut street.
Sunnyside avenue, 105 feet west of Wigglesworth street.
Sycamore street, 18 feet south of Broadway.
Sycamore street, 360 feet south of Broadway.
Sycamore street, corner of Forster street.
Sycamore street, 213 feet north of Medford street.
Stickney avenue, 212 feet west of Marshall street.
Sydney street, 412 feet east of Temple street.
Temple street, 53 feet north of Jaques street.
Tenney court, 318 feet north of Mystic avenue.
Thurston street, 6 feet north of Evergreen avenue.
Trull street, 264 feet north of Vernon street.
Tufts street, 75 feet north of Washington street.
Tufts street, 48 feet west of Glen street.
Tufts street, 54 feet east of Cross street.
Thorndike street, 10 feet south of Boston & Lowell R. R.
Thorpe place, 280 feet south of Highland avenue.
Union square, corner of Washington street.
Union square, west side of square.
Vernon street, 75 feet west of Partridge avenue.
Vinal avenue, 12 feet south of Grand View avenue.

HYDRANT LOCATION.

Vinal avenue, 129 feet north of Aldersey street.
Vinal avenue, 219 feet north of Summer street.
Vine street, 9 feet south of Tyler street.
Vine street, 180 feet north of Beacon street.
Virginia street, 45 feet west of Aldrich street.
Wallace street, 40 feet south of Broadway.
Wallace street, 480 feet south of Broadway.
Wallace street, 175 feet north of Park avenue.
Walnut street, 38 feet south of Veazie street.
Walnut street, 92 feet south of Wellington avenue.
Walnut street, 36 feet north of Pleasant avenue.
Walnut street, 12 feet south of Boston street.
Ward street, 84 feet west of Medford street.
Ward street, corner of Emery street.
Ward street, corner of Harris street.
Ware street, 258 feet west of Curtis street.
Warren avenue, 75 feet south of Columbus avenue.
Warren avenue, 175 feet north of Bow street.
Warwick street, 420 feet east of Cedar street.
Washington street, 45 feet east of Beacon street.
Washington street, 186 feet west of Dane street.
Washington street, 9 feet east of Leland street.
Washington street, 96 feet south of Parker street.
Washington street, 6 feet east of Kingman court.
Washington street, corner of Mystic street.
Washington street, 84 feet east of Boston street.
Washington street, 50 feet east of Shawmut street.
Washington street, 15 feet west of Myrtle street.
Washington street, 20 feet east of Franklin avenue.
Washington street, corner of Myrtle street.
Washington street, corner of Florence street.
Washington street, corner of Mt. Vernon street.
Washington street, 69 feet west of Crescent street.
Washington street, opposite Union square.

FIRE SERVICES.

For the protection of the New England Dressed Meat & Wool Co., John P. Squire & Co., Somerville Electric Light Co., Wilbur P. Rice's planing mill, the following fire services were laid, the expense of which was paid by the above firms:—

New England Dressed Meat & Wool Co.:—

745 feet of	.	.	.	.	.	.	.	.	10-inch pipe
11 " "	.	.	.	.	.	.	.	.	8 " "
18 " "	.	.	.	.	.	.	.	.	6 " "
42 " "	.	.	.	.	.	.	.	.	4 " "
62 " "	.	.	.	.	.	.	.	.	2 " "

This ten-inch pipe is connected with the dead end on Merriam street, and through their premises and connects with the fourteen-inch pipe on Medford street. Attached to this pipe are three (fire) hydrants.

John P. Squire & Co.:—

24 feet of	10-inch pipe
60 " "	6 " "

Somerville Electric Light Co.:—

153 feet of	4-inch pipe
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Wilbur P. Rice's planing mill:—

32 feet of	6-inch pipe
61 " "	2 " "

SERVICES.

Whole number of services laid for families and other purposes during the year, 529.

Total length of pipe used, four miles, 1,172 feet.

There were fourteen relaid, which were filled up with rust and other causes.

There were seventy-four cleared of rust, fish, and sediments.

There were 108 iron boxes set, in place of old decayed wooden ones.

There were thirty-one leaks on services, of which the following were causes: Sixteen by broken leads, eight by settling of earth, four by pick holes, three by loose couplings.

On account of relaying, 512 services were connected with new mains, of which the following stock was used: Eleven 1-inch corporations, six $\frac{3}{4}$ -inch corporations, 495 $\frac{5}{8}$ -inch corporations, 289 lead connections, 1,536 feet of pipe.

Total length of service pipes in the city, forty-nine miles, 3,868 feet.

There were lined at shops six miles, 918 feet of one-inch pipe.

There were made 1,141 lead connections.

STAND-PIPES.

Two new ones were set the past year, making the total number now in use thirty-three, located as follows:—

- One on Beacon street, opposite Cooney street.
- One on Broadway, near corner of Franklin street.
- One on Broadway, opposite Park street.
- One on Broadway, corner of Clarendon avenue.
- One on Concord avenue, corner of Marion street.
- One on Elm street, near Morrison street.
- One on Highland avenue, corner of Medford street.
- One on Highland avenue, corner of Central street.
- One on Linwood street, near Poplar street.
- One on Main street, near Broadway.
- One on Medford street, corner of Lee street.
- One on Medford street, near Magoun square.
- One on Mystic avenue, corner of Union street.
- One on Pearl street, corner of Walnut street.
- One on Pearl street, near Delaware street.
- One on Pinckney street, corner of Pearl street.
- One on Putnam street, corner of Summer street.
- One on Somerville avenue, near Cambridge line.

- One on Somerville avenue, near Poplar street.
- One on Somerville avenue, corner of Mystic street.
- One on Somerville avenue, near School street.
- One on Somerville avenue, corner of Beacon street.
- One on Spring street, near Somerville avenue.
- One on Summer street, opposite Laurel street.
- One on Summer street, corner of Elm street.
- One on Tufts street, corner of Cross street.
- One on Vinal avenue, near Highland avenue.
- One on Washington street, corner of Myrtle street.
- One on Washington street, corner of Boston street.
- One on Washington street, near Union square.
- One on Washington street, opposite Leland street.
- One on Summer street, corner of Cedar street.
- One on Putnam street, corner of Summer street.

DRINKING FOUNTAINS.

There were set during the past year two new ones, making a total now in the city of seven, which are located as follows :—

- One on Broadway, opposite the Public Park.
- One on Davis square, corner of Highland avenue and Elm street.
- One on Davis square, opposite Dover street.
- One on Highland avenue at engine house, corner Walnut street.
- One on Magoun square (north side).
- One at junction of Somerville avenue and Bow street.
- One at junction of Somerville avenue and Washington street.

The fountains have had the usual repairs, and have had new chains, dippers, faucets, and stop-cocks, and they are in good condition.

HIGH SERVICE.

There has been no extension of this service made during the year, and it is working perfectly and no complaint of lack of water within the territory that it covers has been made.

The tank was thoroughly cleaned in July last. Not very much sediment was found on the bottom, and none on the sides.

The tank was painted on the inside with one coat of the best asphalt paint. Some small leaks begin to show on the outside of the tank and will need to be recaulked the coming season.

STOCK AND TOOLS ON HAND JANUARY 1, 1893.

STOCK.

Cast-iron pipe	\$860 00	
Special castings	2,656 77	
Gates and hydrants	784 00	
Service-pipe materials	802 17	
Sundry materials	425 00	
	<hr/>	\$5,527 94

TOOLS AND FURNITURE.

Special patterns	\$1,550 00	
Tools and machinery	1,212 52	
Stable department	1,099 00	
Office furniture	600 00	
Pumping station furniture and tools	225 00	
	<hr/>	\$4,686 52
Total		<hr/> <hr/> \$10,214 46

The superintendent, in closing, takes this opportunity to thank the members of the Water Board for their support and co-operation in the works of the department.

NATHANIEL DENNETT,

Superintendent.

ENGINEER OF PUMPING STATION'S REPORT.

HIGH-SERVICE PUMPING STATION, }
SOMERVILLE, Dec. 31, 1892. }

To the Somerville Mystic Water Board:—

GENTLEMEN,—Below is a statement of the work performed by the high-service pump during the year ending December 31, 1892:—

Number of days on which the pump was run	. . .	366
Total pumping time in hours	. . . . .	1,647
Average pumping time per day in hours	. . .	4.30
Average number of strokes per minute	. . .	26 $\frac{79}{100}$
Number of tons of coal consumed	. . . . .	207
Total number of gallons of water pumped	. . .	127,082,640
Average steam pressure	. . . . .	52 lbs.
Average back-water pressure	. . . . .	37 lbs.

The following is a list of all the supplies, tools, furniture, etc., at the High-service Pumping Station December 31, 1892:—

Cylinder oil, 6 gallons.	Machine oil, 8 gallons.
Lard oil, 5 gallons.	Waste, 100 lbs.
230 paper ferrules.	

TOOLS.

1 bench vice.	1 grindstone.
1 truck.	1 gate wrench.
1 service wrench.	1 ratchet wrench.
1 hand saw.	1 hand axe.
1 chisel bar.	2 lanterns.
2 floor brushes.	2 step ladders.
2 copper oil cans, 10 gallons each.	1 iron wheelbarrow.
1 coal car.	

FIRE TOOLS.

1 hoe.	1 fire shovel.
1 slice bar.	2 fire hooks.
All in good repair.	

FURNITURE.

1 iron safe.	1 writing desk.
1 writing table.	10 chairs.
2 brooms.	1 floor brush.
1 bench brush.	2 water pails.
1 dust brush.	1 length of inch hose.

The following supplies have been received during the year ending December 31, 1892:—

From Star Brass Mfg. Co., 12 water glasses.

H. R. Worthington, 1 set of rubber valves for air pump.

Water Office, 1 bench brush, 1 package of gold dust, 2 boxes of pomade, 2 cans of Britman's oil polish, 1 broom, 1 floor brush.

H. R. Worthington, 1 steam chest cover for air pump.

Boston Bolt Co., 15 bolts.

W. F. Law, 10 gallons of cylinder oil, 24 inches of ring packing for air and feed pumps.

A. W. Russell, 1 tube brush.

H. R. Worthington, 36 springs.

Water Office, 1 box of pomade, 1 package of gold dust, 1 can of Britman's oil polish.

H. R. Worthington, 250 paper ferrules for condenser.

Water Office, 6 towels, $\frac{1}{2}$ yard of Canton flannel, 10 yards sheeting, 3 webs of fly netting.

A. W. Russell, 1 bale of waste, 230 lbs.

H. R. Worthington, 10 feet of $\frac{1}{2}$ inch Tupper's packing for air pump.

Water Office, 5 feet of $\frac{1}{8}$ rubber for cylinder head.

W. F. Law, 10 gallons of cylinder oil, 10 gallons of machine oil, 48 inches of Garlock's ring packing for air and feed pumps, 1 piece of small packing for valve stems.

R. T. Barr, 30 lbs. of sal-soda, 1 box of soda ash.

I wish to express my thanks to the members of the board for their confidence in me, and to the superintendent for many favors and hearty co-operation in the work of this department.

Yours respectfully,

SIDNEY E. HAYDEN, *Engineer.*

REPORT
OF THE
OVERSEERS OF THE POOR.

CITY OF SOMERVILLE.

IN BOARD OF ALDERMEN, February 8, 1893.

Referred to the committee on printing, to be printed in the annual reports.
Sent down for concurrence.

GEORGE I. VINCENT, *Clerk.*

Concurred in.

IN COMMON COUNCIL, February 15, 1893.

CHARLES S. ROBERTSON, *Clerk.*

BOARD OF OVERSEERS OF THE POOR.

HON. WILLIAM H. HODGKINS, *Chairman, ex officio.*

NATHAN H. REED Ward One.

EDWARD B. WEST Ward Two.

JAMES G. HINCKLEY Ward Three.

CHARLES G. BRETT, *President* Ward Four.

COMMITTEES:

On Investigation and Relief . . . MR. BRETT AND MR. WEST.

On Finance MR. REED AND MR. HINCKLEY.

CHARLES C. FOLSOM, *General Agent.*

FRANK W. KAAH, *Secretary.*

ALVAH B. DEARBORN, M. D., *City Physician.*

Office: Police Building, Bow Street.

CITY OF SOMERVILLE.

To His Honor the Mayor and the City Council of the City of Somerville:—

GENTLEMEN, — The Board of Overseers of the Poor herewith presents its annual report for the year ending December 31, 1892.

The membership has remained unchanged, except in Ward Three, where Mr. Stillson had faithfully served for several years, but owing to failing health he refused a re-election, and Mr. James G. Hinckley was elected in his place in April.

Mr. F. W. Kaan, who has been secretary of the board for five years, has resigned. This we consider a loss to the board, as he has been very efficient and accurate in his work.

C. C. Folsom, general agent for the last eight years, still attends to his duties in a faithful and satisfactory manner.

During the year a house that had been donated to the city by Ann McKone was destroyed by fire, and \$300 was received by this department for insurance. Later in the year we sold the land on which the house stood for \$460. This also was credited to the support of poor account. In October Nathaniel C. Woodman sent for the general agent and paid him \$200 for the city, it being in part payment for aid rendered to him during the last twelve years.

These amounts aggregate nearly \$1,000, so that our appropriation for 1893 must be at least \$1,000 more than it was for 1892, if we spend no more in this department; but owing to the increase in population, it is fair to assume that we shall be called upon to spend more money for the poor in the ensuing year than for the year just closed.

For the detailed statement of our work we will refer you to the following tables.

Respectfully submitted,

(Signed)

WILLIAM H. HODGKINS, *Chairman, ex officio.*

NATHAN H. REED, Ward One.

EDWARD B. WEST, Ward Two.

JAMES G. HINCKLEY, Ward Three.

CHARLES G. BRETT, *President*, Ward Four.

TABLE No. 1.**PARTIAL SUPPORT (OUT-DOOR RELIEF).**

Families aided	184
Persons aided	739
Burials	17
Permits to the Tewksbury almshouse	8

TABLE No. 2.**FULL SUPPORT DURING THE YEAR.**

In almshouses	15
“ private families	17
“ Boston hospitals	18
“ Massachusetts School for the Feeble-minded	4
“ House of the Angel Guardian	2
Insane persons in private families	5
“ “ “ hospitals	45

TABLE No. 3.**FULL SUPPORT AT PRESENT TIME, DECEMBER 31, 1892.**

In out-of-town almshouses	11
“ private families	10
“ “ “ children	5
Insane in hospitals (we are reimbursed for 2)	34
“ “ private families	5

TABLE No. 4.**RECAPITULATION.**

Appropriation	\$14,000 00
Reimbursements	3,099 90
Total receipts	\$17,099 90
Total expenditures	17,015 30
Balance	\$84 60
Net expenditures	13,915 40

TABLE No. 5.
REIMBURSEMENTS.

Commonwealth of Massachusetts	.	.	.	.	\$958	98
City of Boston	.	.	.	.	276	54
" " Cambridge	.	.	.	.	119	80
" " Newburyport	.	.	.	.	2	00
" " Gloucester	.	.	.	.	4	85
" " Woburn	.	.	.	.	23	75
" " Lowell	.	.	.	.	28	00
" " New Bedford	.	.	.	.	61	73
" " Waltham	.	.	.	.	15	00
Town of Lexington	.	.	.	.	72	00
" " Stoneham	.	.	.	.	52	32
" " Sandwich	.	.	.	.	4	00
" " Revere	.	.	.	.	70	75
" " Arlington	.	.	.	.	2	00
" " Milford	.	.	.	.	8	95
Guardians and relatives	.	.	.	.	439	23
Insurances on McKone house	.	.	.	.	300	00
Land sold on South street	.	.	.	.	460	00
N. C. Woodman	.	.	.	.	200	00
					\$3,099	90

TABLE No. 6.

EXPENDITURES IN DETAIL FOR THE YEAR 1892.

1892.	Rent.	Board.	Groceries.	Towns and Cities.	Public Institutions.	Boots and Shoes.	Dry Goods.	Burials.	Salaries.	Fuel.	Sundries.	Totals.
January . .	\$87 86	\$99 69	\$239 34	\$534 14	\$1,755 26	\$3 75	-	\$10 00	\$120 83	\$125 45	\$44 98	\$3,021 30
February . .	82 29	99 21	169 50	441 51	334 97	32 50	-	10 00	120 83	104 73	12 70	1,408 24
March . .	82 86	220 40	166 00	69 88	981 50	4 75	\$3 00	15 00	195 84	94 04	13 50	1,946 77
April . .	87 57	78 93	204 26	200 91	768 47	4 75	2 50	10 00	145 83	-	36 69	1,539 91
May . .	81 86	73 40	45 50	-	13 71	-	-	30 00	145 83	-	32 91	423 21
June . .	118 07	215 58	110 00	8 15	942 44	27 50	4 00	45 00	145 84	-	14 62	1,631 20
July . .	76 86	81 00	61 63	166 75	572 77	-	22 45	-	145 83	-	29 20	1,156 49
August . .	76 86	81 26	99 00	207 40	172 46	-	-	20 00	145 83	-	6 00	808 81
September .	76 57	220 79	161 38	58 98	642 03	2 00	-	75 00	145 84	-	4 95	1,387 54
October . .	83 86	95 76	154 76	83 86	770 68	14 75	-	-	145 83	45 62	96 45	1,491 57
November .	79 57	93 51	104 36	-	289 00	1 50	-	25 00	145 83	-	19 95	758 72
December .	79 86	239 75	84 00	633 37	48 00	15 75	7 12	-	145 84	176 19	111 66	1,541 54
Totals .	\$1,014 09	\$1,599 28	\$1,599 73	\$2,404 95	\$7,291 29	\$107 25	\$39 07	\$240 00	\$1,750 00	\$546 03	\$423 61	\$17,015 30

TABLE No. 7.

GROSS EXPENDITURES FROM 1883 TO 1892, INCLUSIVE.

	1884.	1885.	1886.	1887.	1888.	1889.	1890.	1891.	1892.
1883.									
\$15,959 80	\$17,272 52	\$16,430 32	\$14,341 83	\$13,430 89	\$13,375 98	\$14,610 92	\$15,261 14	\$15,980 49	\$17,015 30

REPORT
OF THE
BOARD OF HEALTH.

CITY OF SOMERVILLE.

IN BOARD OF ALDERMEN, February 1, 1893.

Referred to the committee on printing, to be printed in the annual reports.
Sent down for concurrence.

GEORGE I. VINCENT, *Clerk.*

IN COMMON COUNCIL, February 1, 1893.

Concurred in.

CHARLES S. ROBERTSON, *Clerk.*

CITY OF SOMERVILLE.

OFFICE OF THE BOARD OF HEALTH, }
CITY HALL, January 25, 1893. }

To the Honorable the Mayor and the City Council:—

GENTLEMEN,— We respectfully submit the following as the fifteenth annual report of the Board of Health, in which is presented a statement, tabulated and otherwise, of the sanitary condition of the city and the business of the board for the year ending December 31, 1892:—

ORGANIZATION.

Chairman, J. FRANK WELLINGTON.

Clerk, WILLIAM P. MITCHELL.

Agent, CALEB A. PAGE.

Charles H. Crane was reappointed a member of the board for two years.

NUISANCES.

A record of nuisances abated during the year, in compliance with notices issued by the board or under the board's direction, is presented in the following table, under the heads of the months when the complaints were made:—

NUISANCES ABATED IN THE YEAR 1892.

	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Total.
Cellar damp	9	1	-	1	1	2	3	1	4	1	-	-	23
Cellar open	-	-	-	-	-	1	-	-	-	-	-	-	1
Cesspool offensive	-	-	-	-	-	-	2	-	2	2	-	-	6
Cesspool overflowing	1	-	1	-	-	-	-	-	1	1	1	-	5
Connections of drainage pipes defective	1	-	1	2	1	-	3	4	5	1	-	-	18
Connections or gas-pipes defective	1	-	-	-	-	-	-	-	-	-	-	-	1
Cows allowed on streets and sidewalks	-	-	-	-	-	-	-	3	-	-	-	-	3
Decomposed meat offensive	-	-	-	-	-	-	-	1	1	-	-	-	2
Dogs kept in kitchen	-	-	-	1	-	-	-	-	-	-	-	-	1
Drainage defective	3	-	-	3	-	1	-	-	3	4	1	-	15
Drainage emptying into cellar	1	-	1	2	-	-	-	4	2	4	2	1	17
Drainage emptying on surface	3	-	1	5	2	3	2	3	6	2	-	-	27
Drainage not ventilated	1	-	2	1	-	-	1	-	3	2	1	-	11
Drain-pipe defective	2	-	-	-	-	1	-	2	3	3	-	-	11
Goats kept without a license	-	-	1	-	-	-	-	-	1	-	-	-	2
Hennery offensive	-	-	-	-	-	-	1	1	1	1	-	-	4
Hens kept in cellar	1	-	1	-	-	-	-	1	2	-	-	-	5
Manure exposed and offensive	3	-	1	9	6	1	4	6	10	8	-	-	48
Manure-pit defective	-	-	-	-	-	-	1	-	-	1	-	-	2
Manure-pit too close to house	-	-	-	-	-	-	-	-	1	-	-	-	1
Offal on land	1	-	-	8	1	-	-	1	-	-	1	1	13
Offensive odor in and about dwellings	7	-	-	3	-	1	3	2	4	4	-	1	25
Open cellar under stable	-	-	1	-	2	-	-	1	-	-	-	-	4
Opening in drain-pipe in cellar	1	-	-	-	-	-	1	-	3	2	-	-	7
Pigs kept without license	-	1	-	1	-	1	1	2	-	-	2	-	8
Premises filthy	-	-	-	-	-	-	-	1	1	-	-	-	2
Premises untidy	-	-	1	12	1	3	-	1	6	4	1	1	30
Privy-vault defective	3	-	-	3	1	4	1	-	12	11	-	-	35
Privy-vault full	11	-	3	19	5	24	18	4	32	22	1	-	139
Privy-vault offensive	13	-	3	20	11	30	20	19	63	38	1	-	218
Removal of bodies of animals burned at fires	-	-	1	-	-	-	-	-	-	-	-	-	1
Rubbish in cellar	1	-	-	1	1	1	1	-	2	-	-	-	7
Sewage flowing under floor	1	-	-	-	-	-	1	-	2	-	-	-	4
Sewer-gas in house	1	-	-	2	1	-	-	-	1	2	-	-	7
Slops thrown on surface	-	-	-	1	-	-	-	-	-	-	-	-	1
Stable infected with glanders	-	1	-	-	-	1	-	-	-	-	-	1	3
Stable and stable premises filthy and offensive	-	-	-	1	-	-	1	-	3	1	-	-	6
Stable without drainage	3	-	1	2	2	1	1	2	3	1	-	-	16
Stagnant water in house cellar	-	-	-	-	-	-	-	-	2	1	-	-	3
Stagnant water on surface	3	-	-	2	-	-	-	1	1	2	-	-	9
Ventilation under steps offensive	-	-	-	-	-	-	-	-	1	3	-	-	4
Waste-pipe defective	-	-	-	2	-	1	-	-	1	1	-	-	5
Waste-pipe not trapped	6	-	1	2	-	1	1	1	7	8	-	-	27
Water-closet defective	10	1	2	2	1	-	3	-	1	-	2	1	23
Water-closet insufficiently supplied with water	-	-	-	2	1	2	1	2	5	3	1	-	17
Water-closet offensive	5	-	-	-	-	-	-	-	-	-	-	-	5
Water in cellar	-	1	-	-	-	-	-	-	-	1	-	-	2
Total	92	5	22	107	37	79	70	63	195	134	14	6	824

Number of nuisances abated	824
“ “ referred to board of 1893	381
“ “ complained of	1,205
“ complaints (many covering more than one nuisance)	584
“ tenements ordered vacated	5
“ notices mailed	579
“ “ served by constables	5

Many nuisances have been abated on verbal notice from the agent, without any action of the board; and of such no record has been made.

GLANDERS.—As may be seen by the foregoing table [stables infected with glanders], several cases of glanders have occurred during the year. When this disease is encountered the promptest action is necessary, and that we may have opportunity to take such action, we ask that owners of horses notify the board or its agent immediately on the appearance of this disease.

SEWER OUTLET, MYSTIC AVENUE.—As was stated in the report of this board for the year 1891, this outlet is in a very offensive state. The drainage of a large part of Winter Hill empties, on the northeasterly side of Mystic avenue, into an open ditch, which extends across the marshes to a culvert under Middlesex avenue, and thence to the Mystic river. At its lower end, it collects at times and causes a nuisance, which should be attended to at the very earliest possible convenience.

SEWER AT CLARENDON HILL, WEST SOMERVILLE.—There is great need of sewerage in Jay, Elmwood, Cameron, and Gorham streets, West Somerville. At the lower end of these streets there are no sewers, and the abutters are obliged to drain on the surface, which necessarily creates a nuisance. In the opinion of this board, sewers should be constructed as soon as possible in this locality.

SLAUGHTERING AND RENDERING ESTABLISHMENTS.

During the past year the Board of Aldermen have granted a license for rendering to C. M. Hinckley, and a license to slaughter and render to the New England Dressed Meat & Wool Company. There are now located within the limits of the city three of the larg-

est slaughtering establishments in the country. To reduce to the minimum the disagreeable features inherent to business of this nature, it is necessary that the closest supervision should be had of them all, and to this end we would suggest that this board be given authority to employ a suitable person, who should devote all his time to the inspection of these and kindred works, believing that the results to be obtained will be beneficial to the city.

CLEANLINESS OF THE CITY.

In September last, fully realizing the importance of extra vigilance on account of the threatened cholera epidemic, the board gave unusual attention to the cleanliness and sanitary condition of the city. Extra inspectors were employed, two of the sergeants and seven patrolmen of the police force were appointed emergency officers of the board, and to further assist us in our work an appeal was issued to the citizens for co-operation, and the results accomplished were so highly satisfactory that we believe the city was never in a better sanitary condition than at present.

FILLING FROM SOMERVILLE AVENUE.

During the past year South, Columbia, Harrison, Hanson, Clark, Durham, Skehan, Granite, and Bennett streets, and Carey and Conlon courts have been graded and filled with the macadam filling taken from Somerville avenue.

PERMITS.

The record of permits to keep cows, swine, and goats, to collect grease, and for the removal of manure, is as follows:—

COWS.—Thirteen applications were received for permits to keep fifty-two cows. No fee is charged for these permits.

SWINE.—Twenty-nine applications were received for permits to keep 201 swine. Twenty-seven permits were granted to keep 196 swine, and the two remaining applications for permits for five swine were refused. The fee is \$1 for each swine.

GOATS. — Eleven applications were received for permits to keep twelve goats, all of which were granted. Fee for each goat, \$1.

GREASE. — Three applications were received for permits to collect grease, which were granted. The fee is \$2. Two of those licensed reside in Somerville, and one in Charlestown.

MANURE. — Two permits were issued during the year for the carting of manure through the city in the day-time between May 1 and November 1, and eight were issued for the removal of manure from stables in the city in the day-time within the same period. No fee is charged for these permits.

PEDLERS.

One hundred and two certificates were issued to hawkers and pedlers under the ordinance numbered thirty of the Revised Ordinances of 1891.

These certificates are not required to be renewed, but are good for an indefinite time, and a large number of those who have obtained them have ceased to carry on the business.

All pedlers are required to present their vehicles for inspection by the agent of the board at the police building monthly, so that the agent may see that the vehicle is kept clean and is properly marked with the owner's name and number.

ASHES.

Ashes and house-dirt were removed during the first half of the year by John F. Elkins, at the contract price of \$4,250 per annum.

On June 15 the following proposals were received to collect the ashes and house-dirt for the year commencing July 1, 1892:—

Owen Cunningham & Son	\$8,500 00
T. F. Crimmings	6,200 00
Martin Gill	6,150 00
John F. Elkins	5,865 00
Henry Gray	5,000 00
Jeremiah McCarthy	4,500 00

And the contract was awarded to Jeremiah McCarthy for \$4,500.00.

The collections are made weekly in each of the six districts : —

Monday in District 1.

Tuesday in District 2.

Wednesday in District 3.

Thursday in District 4.

Friday in District 5.

Saturday in District 6.

Materials for removal must be free from filth and offal, must be placed in barrels or boxes, and must be set on the outer edge of the sidewalk before 8 o'clock in the morning of the day when the collection is to be made.

HOUSE OFFAL.

In March proposals were issued upon the same terms as in years past, requiring the contractor to furnish all wagons, sleds, etc., used in the performance of the work, and but one bid was received, from Henry Gray, for \$7,400. This was rejected, and in the latter part of the same month second proposals were issued, with the modification, however, that the city would furnish all wagons, sleds, etc., and in response the following bids were received to remove house offal for two years, from June 26 : —

Jeremiah McCarthy	.	.	\$7,500 00 per year.
Henry Gray	.	.	7,400 00 “
John F. Elkins	.	.	6,900 00 “
Martin Gill	.	.	6,850 00 “

And the contract was awarded to Martin Gill.

The board then purchased of Henry Gray five second-hand wagons and three sleds for \$550, and one wagon of Christopher Burke for \$65. One new wagon has been ordered of A. S. Symmes, of Medford, which is to be delivered early next season.

The new contractor finding it impossible to obtain a suitable place for dumping the offal, the Board of Health finally leased for a term of two years a lot of land on Melrose street, belonging to H. S. Pond, and sub-let the same to Martin Gill, the contractor.

The work of this department for the past year has not been done

to the satisfaction of the board, some of it occasioned, no doubt, by the change of contractor, and his unfamiliarity with the work.

The board is of the opinion that it will be for the best interests of the city to assume, as soon as possible, the entire charge of the collection and disposal of house offal.

The amount of offal collected during the year 1892 was about 674 cords.

NIGHT SOIL.

The removal of night soil has been made by R. M. Johnson, of Arlington, and has been carried on by the "Odorless" process.

The contract price, which the owner or occupant is charged, is four dollars for every load, or part of a load, of eighty cubic feet.

About 507 loads have been removed during the past year.

An order book is kept at the Police Station on Bow street.

DEATHS.

There were 718 deaths and forty-seven still-births in the city during the year, as specified in the following table:—

MORTALITY IN SOMERVILLE IN 1892.

	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Total.
ZYMOTIC DISEASES.													
<i>Miasmatic.</i>													
Scarlet fever	-	-	3	2	4	-	1	-	-	1	-	3	14
Diphtheria	2	-	2	2	1	-	-	-	-	-	1	-	8
Typhoid fever	-	2	-	-	-	-	1	1	4	3	-	-	11
Erysipelas	-	-	-	-	2	-	-	-	-	-	-	1	3
Diarrhœa	-	-	1	-	-	-	-	1	1	-	-	-	3
Cholera infantum	-	-	-	-	1	1	21	6	6	2	-	-	37
Septicæmia	-	-	-	-	1	-	1	-	-	-	-	-	2
Whooping cough	2	2	1	-	-	-	-	-	-	-	1	-	6
Dysentery	-	-	-	1	-	-	-	-	-	-	-	-	1
Rheumatism	-	-	1	-	-	-	-	-	1	-	-	-	2
CONSTITUTIONAL DISEASES.													
<i>Diathetic.</i>													
Cancer	3	1	1	3	1	2	-	3	1	3	1	1	20
Tumor	-	1	-	-	-	-	-	-	-	1	1	-	3
<i>Tubercular.</i>													
Tuberculosis	1	-	-	-	-	-	1	1	3	1	-	1	8
LOCAL DISEASES.													
<i>Nervous System.</i>													
Apoplexy	5	2	1	1	-	-	2	2	-	1	-	4	18
Paralysis	1	3	-	1	3	-	1	4	-	3	1	2	19
Insanity	1	-	-	-	2	1	-	3	-	-	1	2	10
Brain disease	-	-	1	-	1	3	1	-	3	1	-	-	10
Meningitis	2	2	7	3	2	4	3	-	3	2	2	4	34
Convulsions	1	3	1	1	1	2	-	1	1	-	-	1	12
Spinal disease	-	-	-	-	1	1	1	-	-	-	-	-	3
Hemiplegia	-	-	1	-	1	-	-	-	-	-	-	-	2
<i>Organs of Circulation.</i>													
Heart disease	11	6	6	6	5	11	2	8	3	6	7	5	76
Aneurism	1	-	-	-	-	-	-	-	-	-	-	-	1
Angina pectoris	-	-	-	-	-	1	-	-	-	-	-	-	1
Cyanosis	-	-	-	-	-	1	-	-	-	-	-	-	1
Phlebetis	-	1	-	-	-	-	-	-	-	-	-	-	1
<i>Respiratory Organs.</i>													
Pneumonia	28	5	4	7	-	5	2	3	-	1	4	8	67
Bronchitis	12	5	-	1	1	-	-	1	-	7	3	1	31
Hemorrhage	-	3	1	2	2	3	1	-	1	2	1	1	17
Phthisis pulmonalis	15	9	10	9	9	10	6	9	13	9	8	6	113
Pleurisy	-	-	-	-	-	1	-	-	-	-	-	-	1
Asthma	-	-	-	-	-	-	-	-	1	-	1	-	2
Influenza	7	3	-	-	1	-	-	-	-	-	1	-	12
Laryngitis	-	1	-	1	-	-	-	-	-	-	1	-	3
Congestion of lungs	1	-	-	-	-	-	-	-	-	-	-	-	1
<i>Digestive Organs.</i>													
Gastritis	1	-	-	-	-	-	-	-	-	-	-	-	1
Peritonitis	-	-	1	3	1	3	1	1	1	1	-	-	12
Liver disease	2	1	1	1	1	-	1	-	-	-	-	-	7
Gastric ulcer	-	-	-	-	-	-	-	-	-	-	-	-	1
Enteritis	-	-	-	-	-	1	5	-	-	1	1	1	9
Intestinal catarrh	-	1	-	-	1	1	-	-	-	-	-	-	3
Jaundice	-	-	1	-	-	-	-	-	-	-	-	-	1
Cholera Morbus	-	-	-	-	-	-	1	1	-	-	-	-	2

MORTALITY IN SOMERVILLE IN 1892. — *Continued.*

	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Total.
<i>Genito-Urinary Organs.</i>													
Bright's disease	2	1	2	-	1	-	1	2	2	1	2	-	14
Diabetes	-	-	-	-	1	-	-	-	-	-	2	-	3
Cystitis	1	-	-	-	-	-	-	-	-	1	-	-	2
Nephritis	1	-	1	-	1	-	1	1	-	-	-	-	5
Uræmia	-	-	-	-	-	-	-	-	-	-	-	1	1
Childbirth	-	-	-	-	-	-	-	-	1	-	-	-	1
Metritis	-	-	-	-	-	-	1	-	-	-	-	-	1
DEVELOPMENTAL DISEASES.													
<i>Of Children.</i>													
Inanition	-	-	-	1	-	-	-	-	-	1	-	-	2
Premature birth and congenital debility	3	2	2	3	4	1	2	3	3	1	1	2	27
<i>Of Old People.</i>													
Old age	12	1	5	3	3	-	3	1	3	1	2	1	35
General debility	-	-	-	-	-	-	1	1	-	-	1	1	4
Gangrene	-	-	-	-	-	-	-	-	-	1	-	-	1
VIOLENT DEATHS.													
Railroad	-	-	-	-	-	-	-	2	1	-	1	1	5
Suicide, hanging	1	-	-	-	-	-	-	-	-	1	-	-	2
Asphyxia	-	2	-	-	-	-	-	-	-	-	1	-	3
Sunstroke	-	-	-	-	-	1	-	-	-	-	-	-	1
Accidental drowning	-	-	-	-	-	2	1	-	-	-	-	-	3
Fall on stairs	-	-	-	-	-	-	-	-	-	-	1	-	1
Alcoholism	-	1	-	-	-	-	-	-	-	-	-	-	1
Fracture of skull, accident	-	-	-	-	2	-	-	-	1	-	-	-	3
Fracture of skull, suicide	-	-	-	-	-	1	-	-	-	-	-	-	1
Concussion of brain	-	-	-	-	-	-	1	-	-	1	-	-	2
Fracture of sternum and ribs	-	-	-	-	-	-	-	-	-	-	1	-	1
UNCLASSIFIED.													
Abscess	1	-	-	-	-	-	-	-	-	-	-	-	1
Anæmia	1	-	1	-	-	-	1	-	1	1	-	-	5
Carbuncle	-	-	-	-	-	-	-	1	-	-	-	-	1
Chlorosis	-	-	-	-	-	-	-	1	-	-	-	-	1
Exhaustion	-	-	-	-	-	-	-	1	-	1	-	-	2
Total	118	58	55	51	54	56	64	58	54	56	47	47	718
Stillborn	3	6	3	6	3	3	3	4	2	3	4	7	47

Population (estimated) 46,037
 Death rate per thousand 15.6

DISEASES DANGEROUS TO THE PUBLIC HEALTH.

This board has adjudged small-pox, scarlet fever, diphtheria, and typhus fever to be contagious and dangerous to the public health, within the meaning of the statute. Our city has been free from small-pox and from typhus fever for several years past. Physicians are required to report immediately to the board every case of either of these diseases coming under their care, and postal cards, conveniently printed and addressed, are supplied to them for the purpose.

SCARLET FEVER. — 371 cases of scarlet fever, generally of a mild type, were reported to us during the year, 14 of which resulted fatally. This is an increase over 1891, when there were 127 cases and 2 deaths.

We place a warning card at the entrance to the dwelling as soon as a case is reported, and fumigate the premises after its termination.

DIPHTHERIA. — There has been a considerable decrease in the number of cases of this disease, there being only 39 cases and 8 deaths in 1892, while in 1891 there were 72 cases and 18 deaths.

Warning cards are used in dealing with this disease, and we fumigate, the same as in cases of scarlet fever. An inspection of the premises is also made by the agent of the board, and any sanitary defects discovered are required to be remedied as soon as practicable.

TYPHOID FEVER. — In 1892 there were 74 cases of typhoid fever reported and 11 deaths; a slight increase over the previous year, when there were 54 cases and 11 deaths.

A sanitary inspection of the house and surroundings is made in all cases of this disease. We do not, however, fumigate or use a warning card.

The following report of the investigations in regard to the causes which led to the unusual prevalence of typhoid fever in Somerville in the early fall has been prepared by the Board of Health : —

In the last week of August of the present year the attention of the board was drawn to an unusual appearance of typhoid fever in Somerville. A brief investigation showed that there was danger of a serious epidemic, and, as the cause of the trouble was not apparent, the board appealed for assistance in its inquiry to the State Board of Health. The latter responded promptly, and instituted a most care-

ful and thorough investigation. Much time was necessarily occupied in tracing the cause of the disease, and the State Board has not yet prepared its final report. The following letter, however, has been received by us :—

OFFICE OF STATE BOARD OF HEALTH, }
BOSTON, Mass., October 6, 1892. }

To the Board of Health of Somerville:—

GENTLEMEN,—I am instructed by the State Board of Health to inform you that this board has carefully investigated the recent outbreak of typhoid fever in Somerville, and finds that it was probably due to the use of infected milk, which had been accidentally contaminated by a local milkman, who was suffering with typhoid fever. Since the special contamination and the fever subsided several weeks ago, no further anxiety from this source need be felt by the citizens. A full report will be published in the near future.

Respectfully yours,

SAMUEL W. ABBOTT, *Secretary.*

The State Board of Health, through its chairman, has also placed at our disposal all the information in its possession, and from Professor W. T. Sedgwick, biologist of the board, who personally conducted the inquiry, we have obtained the following details:—

During the twenty-one days between August 20 and September 10 there were reported to the Board of Health of Somerville no less than thirty-five cases of typhoid fever. It was found that one of these was an infected case; one was a very old case tardily reported; and one was probably a secondary case. Deducting these, we have thirty-two primary and indigenous cases to be accounted for. In respect to water supply and ice supply, these persons did not appear to be differently situated from the majority of the citizens of Somerville. They also had essentially the same air supply and sewerage as their neighbors, all of whom remained unaffected.

The only supply which they are nearly all known to have had in common, and which the majority of the citizens of Somerville did not share with them, was the milk supply. It was observed very early that many of the families in which the cases occurred took milk from the same source. Careful inquiry proved that thirty out of the thirty-two cases had access to milk coming from one establishment. In the absence of any other probable cause, it was, therefore, concluded that the outbreak was due to infected milk.

Inspection of the farms from which the milk appears to have come, however, not only revealed no cause for the fever, but showed these dairies to be unusually clean and well-kept. Upon one milk farm in the same town there was found one case of typhoid fever, but there was no evidence that the milk from the farm had had anything to do with typhoid fever in Somerville. In short, there was good reason to believe that the milk upon its arrival in Somerville was uninfected.

But if the milk was free from the germs of typhoid fever upon its arrival, it must have become infected while in the hands of the local dealers. It was known that one of these was among those affected with typhoid fever, but his case had been reported after many of the other cases, so that at first he was thought to have merely shared in the common misfortune. Closer investigation, however, revealed the fact that his illness really dated from a period early enough to have enabled him unwittingly to have infected the milk, and thus to have been the unconscious cause of the outbreak. Professor Sedgwick, after the most exhaustive investigation, has concluded that this was probably, in fact, what happened. It was affirmed that this patient had never actually handled the milk, but had only washed the cans and distributed a part of them to his customers. It was also objected that the cases were chiefly confined to Central Hill, while the route of the milk establishment extended over a much larger section of the city. But it may well be doubted if the operations of "tasting," "mixing," "setting up," etc., which took place at the central establishment after most of the milk had been carried there from the train upon which it arrived, were really so conducted as to exclude the possibility of infection of the milk by a person working in the same room and suffering with incipient typhoid fever. The appearance of most of the cases on Central Hill, comparatively near the milk-house in which the patient worked until he was obliged to go to bed, was readily explained when it was learned that some customers were often supplied with milk which had not been in the milk-house at all, but was delivered directly after its arrival upon the train. That this milk appears to have produced no fever, while that which unquestionably came through the milk-house appears to have been infected, strengthens the probability that the milk-house was the place where the contamination occurred. It

is also to be observed that after the milkman who had the fever took to his bed the trouble ceased.

TABLES. — The prevalence of scarlet fever, diphtheria, and typhoid fever in the city during the several months of the year 1892 is shown by the following table, and in the table next following is given the number of deaths from these three diseases by months during the last ten years : —

SCARLET FEVER, DIPHTHERIA, AND TYPHOID FEVER REPORTED IN 1892.

MONTHS.	SCARLET FEVER.			DIPHTHERIA.			TYPHOID FEVER.		
	Cases Reported.	Number of Deaths.	Percentage of Deaths.	Cases Reported.	Number of Deaths.	Percentage of Deaths.	Cases Reported.	Number of Deaths.	Percentage of Deaths.
January . . .	20	-	-	5	2	40	-	-	-
February . . .	42	-	-	5	-	-	3	2	66.6
March . . .	63	3	4.7	8	2	25	1	-	-
April . . .	77	2	2.6	6	2	33.3	2	-	-
May . . .	73	4	5.4	4	1	25	1	-	-
June . . .	19	-	-	3	-	-	1	-	-
July . . .	16	1	6.2	3	-	-	2	1	50
August . . .	5	-	-	-	-	-	26	1	3.8
September . . .	5	-	-	1	-	-	25	4	16
October . . .	12	1	8.3	1	-	-	8	3	37.5
November . . .	18	-	-	2	1	50	4	-	-
December . . .	21	3	14.2	1	-	-	1	-	-
Total . . .	371	14	3.7	39	8	20.5	74	11	14.8

DEATHS FROM SCARLET FEVER, DIPHTHERIA, AND TYPHOID FEVER IN THE LAST TEN YEARS.

MONTHS.	SCARLET FEVER.										DIPHTHERIA.										TYPHOID FEVER.									
	1883.	1884.	1885.	1886.	1887.	1888.	1889.	1890.	1891.	1892.	1883.	1884.	1885.	1886.	1887.	1888.	1889.	1890.	1891.	1892.	1883.	1884.	1885.	1886.	1887.	1888.	1889.	1890.	1891.	1892.
January . .	2	-	2	-	1	5	-	-	-	-	2	1	2	2	1	1	2	2	2	2	2	1	2	-	-	3	-	-	1	-
February . .	-	-	1	-	-	3	1	2	-	-	3	1	2	2	1	3	-	2	-	-	1	-	1	-	-	-	1	-	-	2
March . . .	1	-	1	1	1	4	1	1	1	3	3	3	1	-	-	4	2	-	-	2	-	-	-	-	2	-	-	1	-	-
April . . .	1	-	5	-	-	1	-	-	-	2	6	1	2	1	1	3	2	1	1	2	-	-	-	-	-	1	1	2	-	-
May . . .	-	-	-	2	1	1	-	-	-	1	4	1	2	2	4	-	1	6	1	1	1	1	1	1	1	-	1	-	-	-
June . . .	1	-	1	-	1	1	1	1	1	1	3	1	2	2	-	1	4	2	3	4	2	1	1	1	1	1	2	1	1	1
July . . .	-	2	-	-	-	-	-	-	-	-	3	2	2	1	-	2	1	4	1	4	1	1	1	1	1	2	-	-	-	-
August . .	-	-	-	-	-	-	-	-	-	-	1	-	2	-	-	-	1	1	-	-	1	1	1	1	-	2	1	-	1	1
September .	1	1	1	-	-	-	-	-	-	-	1	4	3	2	1	1	1	1	-	-	2	2	3	-	1	4	2	1	2	4
October . .	-	1	-	-	6	-	1	-	-	1	2	2	1	2	3	4	2	3	3	-	3	-	1	1	2	1	3	1	1	2
November .	-	3	2	-	11	-	2	-	-	-	1	4	5	2	1	4	1	3	4	1	-	2	1	1	2	3	-	1	3	-
December .	-	1	1	-	10	-	-	1	-	3	5	1	4	3	2	1	5	2	3	-	1	1	-	-	2	-	-	-	-	-
Total . .	6	8	14	3	31	15	7	5	2	14	31	21	28	20	11	21	28	21	18	8	13	8	11	3	11	17	7	10	11	11

SHOWING HEALTH DISTRICTS.



DISTRICTS.

The accompanying map shows the boundaries of the ten health districts into which the city was divided by the Board of Health of 1878; also the locations of common sewers.

A record has been kept from year to year of the number of deaths, the death rate per thousand, the prevalence of dangerous diseases, and the number of nuisances abated in these several districts, and is continued in the following tables.

The estimated population in the several districts was originally based on the number of assessed polls in each, and upon the population of the entire city, as shown by the census every five years; it being assumed that the growth in population has been at the same rate as the increase in the number of assessed polls, and has been uniform throughout the city.

TABLE OF DEATHS IN EACH DISTRICT DURING THE LAST TEN YEARS, EXCLUSIVE OF DEATHS IN THE MCLEAN ASYLUM.

Districts	I.		II.		III.		IV.		V.		VI.		VII.		VIII.		IX.		X.		Entire City.	
	Deaths.	Rate per 1,000.	Number of Deaths.	Rate per 1,000.	Number of Deaths.	Rate per 1,000.	Number of Deaths.	Rate per 1,000.	Number of Deaths.	Rate per 1,000.	Number of Deaths.	Rate per 1,000.	Number of Deaths.	Rate per 1,000.	Number of Deaths.	Rate per 1,000.	Number of Deaths.	Rate per 1,000.	Number of Deaths.	Rate per 1,000.	Number of Deaths.	Rate per 1,000.
Area	337 A.		107 A.		93 A.		171 A.		361 A.		285 A.		194 A.		482 A.		174 A.		456 A.		2,650 A.	
In 1892.	Population. . .	8,405	8,205		3,162		5,589		8,859		1,921		4,806		1,410		2,568		1,112		46,037	
	Dwellings . . .	1,310	1,221		578		932		1,446		527		833		368		556		329		8,100	
	Average in each dwelling. . .	6.4	6.7		5.4		6		6.1		3.7		5.8		3.8		4.6		3.4		5.7	
YEAR.	Deaths.	Rate per 1,000.	Number of Deaths.	Rate per 1,000.	Number of Deaths.	Rate per 1,000.	Number of Deaths.	Rate per 1,000.	Number of Deaths.	Rate per 1,000.	Number of Deaths.	Rate per 1,000.	Number of Deaths.	Rate per 1,000.	Number of Deaths.	Rate per 1,000.	Number of Deaths.	Rate per 1,000.	Number of Deaths.	Rate per 1,000.	Number of Deaths.	Rate per 1,000.
	Deaths.	Rate per 1,000.	Number of Deaths.	Rate per 1,000.	Number of Deaths.	Rate per 1,000.	Number of Deaths.	Rate per 1,000.	Number of Deaths.	Rate per 1,000.	Number of Deaths.	Rate per 1,000.	Number of Deaths.	Rate per 1,000.	Number of Deaths.	Rate per 1,000.	Number of Deaths.	Rate per 1,000.	Number of Deaths.	Rate per 1,000.	Number of Deaths.	Rate per 1,000.
1883	138	26	59	12	49	25	60	17	76	14	40	33	51	17	17	19	28	18	9	13	527	18
1884	148	27	55	10	42	20	52	14	69	12	32	25	35	11	14	15	27	16	8	11	482	16
1885	152	28	56	11	40	19	72	20	78	14	31	24	53	17	13	14	25	15	11	15	531	18
1886	115	20	51	9	38	17	59	15	85	14	37	28	44	13	11	11	20	11	19	24	479	15
1887	182	29	54	9	45	19	81	19	87	13	37	25	62	17	20	19	26	14	12	14	606	18
1888	148	23	68	11	44	18	62	14	117	18	33	22	50	13	16	14	28	14	13	15	579	16
1889	125	16	67	9	48	17	85	17	105	14	28	17	62	15	19	15	26	12	17	17	582	15
1890	140	19	69	9	48	17	94	19	139	18	46	27	53	14	27	22	26	12	15	15	663	16
1891	169	22	71	9	68	23	103	20	120	15	75	42	77	17	33	25	33	14	12	12	761	18
1892	139	17	75	9	42	13	76	14	144	16	65	34	59	12	27	19	44	17	25	22	696	16
Average death rate per 1,000 for ten years .		23		10		19		17		15		28		15		17		14		16		17

TABLE SHOWING THE FIVE PRINCIPAL CAUSES OF DEATH IN SOMERVILLE
IN 1892, WITH THE NUMBER AND RATE IN EACH DISTRICT.

DISTRICTS.	CONSUMPTION.		HEART DISEASE.		PNEUMONIA.		CHOLERA INFANTUM.		OLD AGE.	
	Number of Deaths.	Number per 1,000 of pop.	Number of Deaths.	Number per 1,000 of pop.	Number of Deaths.	Number per 1,000 of pop.	Number of Deaths.	Number per 1,000 of pop.	Number of Deaths.	Number per 1,000 of pop.
I.	25	2.98	13	1.55	14	1.67	16	1.91	3	0.36
II.	6	0.74	3	0.61	6	0.73	3	0.37	4	0.49
III.	11	3.48	5	0.95	3	0.95	4	1.26	2	0.63
IV.	16	2.86	8	1.43	7	1.25	2	0.36	3	0.54
V.	21	2.37	16	1.81	17	1.92	3	0.34	14	1.58
VI.	12	6.25	9	4.68	8	4.16	5	2.60	1	0.52
VII.	7	1.67	7	1.46	7	1.46	-	-	5	1.04
VIII.	7	4.66	1	0.71	-	-	2	0.42	1	0.71
IX.	3	1.17	9	3.50	4	1.56	2	0.78	1	0.39
X.	4	3.51	5	4.40	1	0.9	-	-	1	0.9
Total	113	2.45	76	1.65	67	1.46	37	0.81	35	0.76

TABLE OF SCARLET FEVER, DIPHTHERIA, AND TYPHOID FEVER IN EACH
DISTRICT IN 1892.

DISTRICTS.	SCARLET FEVER.				DIPHTHERIA.				TYPHOID FEVER.			
	Cases Reported.	Deaths.	Cases per 1,000 of pop.	Deaths per 1,000 of pop.	Cases Reported.	Deaths.	Cases per 1,000 of pop.	Deaths per 1,000 of pop.	Cases Reported.	Deaths.	Cases per 1,000 of pop.	Deaths per 1,000 of pop.
I.	54	3	6.43	0.36	7	1	0.83	0.12	8	1	0.95	0.12
II.	80	3	9.75	0.37	4	2	0.49	0.24	3	-	0.37	-
III.	33	2	11.38	0.63	6	3	1.89	0.95	3	1	0.95	0.31
IV.	29	2	5.19	0.36	5	1	0.89	0.18	2	-	0.36	-
V.	69	3	7.78	0.34	9	1	1.02	0.11	34	5	3.83	0.56
VI.	28	-	14.57	-	4	-	2.08	-	8	1	4.16	0.52
VII.	44	1	9.17	0.21	-	-	-	-	7	1	1.46	0.21
VIII.	7	-	4.96	-	1	-	0.71	-	-	-	-	-
IX.	20	-	7.79	-	2	-	0.78	-	7	2	2.73	0.78
X.	4	-	3.59	-	1	-	0.9	-	2	-	1.8	-
Total	371	14	8.06	0.3	39	8	0.85	0.17	74	11	1.61	.24

NUISANCES ABATED IN EACH DISTRICT IN 1892.

DISTRICT. Population (estimated).	I.	II.	III.	IV.	V.	VI.	VII.	VIII.	IX.	X.	Total.
Cellar damp	13	5	-	1	2	-	1	1	-	-	23
Cellar open	-	-	-	-	-	1	-	-	-	-	1
Cesspool offensive	-	-	-	-	3	2	1	-	-	-	6
Cesspool overflowing	-	-	-	-	1	-	2	-	-	2	5
Connection of drainage pipes defective	3	3	-	-	4	3	2	2	1	-	18
Connection of gas-pipes defective	-	-	-	-	1	-	-	-	-	-	1
Cows allowed on streets and sidewalks	-	-	-	-	-	2	-	-	-	1	3
Decomposed meat offensive	-	1	-	-	-	1	-	-	-	-	-
Dogs kept in kitchen	-	-	-	1	-	-	-	-	-	-	1
Drainage defective	2	3	-	4	1	3	1	1	-	-	15
Drainage emptying in cellar	2	2	1	1	2	4	2	2	1	-	17
Drainage emptying on surface	5	1	2	4	1	6	4	1	-	3	27
Drainage not ventilated	2	3	1	1	3	-	-	-	1	-	11
Drain-pipe defective	1	1	1	1	-	2	1	1	2	1	11
Goats kept without license	2	-	-	-	-	-	-	-	-	-	2
Hennery offensive	-	-	-	2	1	-	-	1	-	-	4
Hens kept in cellar	1	-	-	2	1	-	-	-	1	-	5
Manure exposed and offensive	13	4	3	8	6	3	3	4	3	1	48
Manure pit defective	2	-	-	-	-	-	-	-	-	-	2
Manure pit too close to house	1	-	-	-	-	-	-	-	-	-	1
Offal on land	5	-	1	2	4	1	-	-	-	-	13
Offensive odor in and about dwellings	-	7	3	3	6	-	3	1	2	-	25
Open cellar under stable	1	-	-	1	1	-	1	-	-	-	-
Opening in drain-pipe in cellar	1	2	1	1	-	-	-	2	-	-	7
Pigs kept without license	3	-	1	1	1	-	1	-	1	-	8
Premises filthy	1	-	-	1	-	-	-	-	-	-	2
Premises untidy	12	1	2	2	11	-	1	1	-	-	30
Privy-vault defective	11	3	3	9	3	5	-	1	-	-	35
Privy-vault full	45	6	13	42	16	8	4	4	1	-	139
Privy-vault offensive	61	8	17	69	29	15	9	7	2	1	218
Removal of bodies of animals burned at fires	-	-	-	-	-	-	1	-	-	-	1
Rubbish in cellar	3	-	-	2	-	1	1	-	-	-	7
Sewerage flowing under floor	1	-	-	1	-	-	1	-	-	1	4
Sewer-gas in house	3	1	1	1	1	-	-	-	-	-	7
Slops thrown on surface	-	-	-	-	-	-	1	-	-	-	1
Stable affected with glanders	-	-	1	-	-	-	1	-	1	-	3
Stable and stable premises filthy and offensive	4	1	-	-	-	1	-	-	-	-	6
Stable without drainage	4	2	1	1	-	-	5	-	-	3	16
Stagnant water in house cellar	2	-	-	1	-	-	-	-	-	-	3
Stagnant water on surface	2	-	3	-	-	1	3	-	-	-	9
Ventilation under steps offensive	-	-	4	-	-	-	-	-	-	-	4
Waste-pipe defective	1	1	-	1	1	-	1	-	-	-	5
Waste-pipe not trapped	6	5	1	5	2	1	3	2	-	2	27
Water-closet defective	11	3	-	2	1	1	4	1	-	-	23
Water-closet insufficiently supplied with water	1	6	-	2	4	-	2	1	1	-	17
Water-closet offensive	2	1	-	1	1	-	-	-	-	-	5
Water in cellar	1	-	-	-	-	-	1	-	-	-	2
Total	228	70	60	173	107	61	60	33	17	15	824

REGULATIONS OF THE BOARD OF HEALTH.

Pub. Stat., Chap. 80, § 18.

IN BOARD OF HEALTH, CITY OF SOMERVILLE, }
March 22, 1892. }

WHEREAS, It is the opinion of the Board of Health of the city of Somerville, and it does hereby adjudicate that the following regulations are necessary for the public health and safety, respecting nuisances, sources of filth, and causes of sickness within the city of Somerville, and that it is necessary to make the following regulations for the public health and safety ; now therefore it is

Ordered, That the following regulations, designated, respectively, as Chapters I. to X., both inclusive, be and hereby are made and adopted, and all regulations previously adopted by this board are hereby repealed :—

CHAPTER I.

CONTAGIOUS DISEASES.

SECTION 1. It is adjudged that the diseases known as small-pox, scarlet fever, diphtheria, typhus fever, and typhoid fever are contagious and dangerous to the public health and safety, and may easily be contracted from persons or apartments, or at funerals from dead bodies which may have been infected by such diseases, and that the following provisions of this chapter are necessary for the public health and safety in regard to said diseases.

SECT. 2. *Householder to give Notice.*—When a householder knows that a person within his family, or any member of his household, is sick of small-pox, scarlet fever, diphtheria, typhus fever, or typhoid fever, he shall immediately give notice thereof to the Board of Health.

SECT. 3. *Physician to give Notice.*—When a physician knows that a person whom he is called to visit is infected with small-pox,

scarlet fever, diphtheria, typhus fever, or typhoid fever, he shall immediately give notice thereof to the Board of Health.

SECT. 4. *Pupils not to attend School.*—No pupil shall attend the public schools while any member of the household to which such pupil belongs, or any occupant of the house in which such pupil resides, is sick of small-pox, scarlet fever, diphtheria, or typhus fever, or during a period of two weeks after the death, recovery, or removal of such sick person; and any pupil coming from such household shall be required to present to the teacher of the school which such pupil desires to attend a certificate from the attending physician or Board of Health of the facts necessary to entitle him or her to admission, in accordance with this regulation.

SECT. 5. *Dwelling to be Labelled.*—Every dwelling where a case of small-pox, scarlet fever, diphtheria, or typhus fever is known to exist shall be immediately conspicuously labelled at its entrance with a card marked "Small-pox here," "Scarlet fever here," "Diphtheria here," or "Typhus fever here," as the case may be, such card there to remain until removed by said board or its agent, or by permission of said board.

SECT. 6. *Label not to be removed or Persons to visit Dwelling.*—No person shall, without permission from the Board of Health, remove from any dwelling in said city any card affixed thereto by said board, or its agent, or any other person, indicating that any of said diseases exist in said dwelling; nor shall any person obliterate or deface such card; nor shall the occupant of any dwelling to which such card may be affixed permit the same to be removed, obliterated, or defaced without immediately notifying said board; nor shall any person, except members of the immediate family occupying the same, and those whose business calls them there, visit, or be permitted by the householder, or any other occupant thereof, to visit, a dwelling labelled with a card as aforesaid without the written permission of said board.

SECT. 7. *No public Funeral.*—No public funeral, and no funeral attended by other persons than members, occupying the dwelling in which the funeral is held, of the immediate family of which the deceased was a member, or those whose business calls them there, shall be held over the remains of any person having died of small-pox, scarlet fever, diphtheria, or typhus fever, except by written consent of the Board of Health, and under such regulations

as said board may prescribe ; and every householder, undertaker, or other person who shall attend or permit any funeral held in violation of the foregoing provisions of this section shall be liable to the penalty provided by law for violation of any regulation of the Board of Health. No person, except members of the immediate family of which the deceased was a member, and those whose business calls them there, shall, without the written permission of said board, be admitted to the house where such death has occurred until after the interment has taken place and the premises have been fumigated.

SECT. 8. *Undertaker to prepare Body and notify Board of Health, and Burial to be made immediately.* — In case of any person dying of small-pox, scarlet fever, diphtheria, or typhus fever the undertaker, his assistant, or agent shall immediately, upon the death of such person, or immediately upon his being notified of the death, or called upon to perform any services, wrap the entire body, including the face, in a sheet saturated with a ten per cent. solution of chloride of zinc, and shall immediately place it in a tight coffin, which shall be securely fastened and shall not thereafter be opened. He shall notify the Board of Health or its agent of the time when the body is to be removed, and shall sign a certificate containing a true statement of the facts, that he has complied with the foregoing provisions of this section; and he, and every other person having charge or custody or the right of disposal of the body, shall cause the burial to take place immediately, and in all cases within not more than eight hours after the time of death, unless further time shall be allowed by the said Board of Health.

SECT. 9. *Patient or Body not to be carried in Public Carriage.* — No owner, driver, or other person having charge of any hackney carriage or other vehicle used as a public conveyance shall receive, or permit to be placed, or convey in any manner, in or upon said carriage or other vehicle any person sick or infected with small-pox, scarlet fever, diphtheria, or typhus fever, or the body of any person who has died of either of said diseases, except by written consent of the Board of Health and under such regulations as said board may prescribe.

SECT. 10. *Dwelling not to be visited until Fumigated.* — Upon the death, removal, or recovery of a person sick of small-pox, scarlet fever, diphtheria, or typhus fever, no person except members of the immediate family of which such sick person was a member, and those whose business calls them there, shall thereafter visit, or be permitted

by the householder or any other occupant thereof to visit, the dwelling in which such person was sick as aforesaid until such dwelling shall have been fumigated or disinfected by the Board of Health or its agent, or to their or his satisfaction.

CHAPTER II.

STABLES AND THE REMOVAL OF MANURE.

SECTION. 1. *Washing of Carriages and Horses, Care of Stables and Yards, and Accumulation of Manure.*—The owners or occupants of livery or other stables within the city of Somerville shall not wash or clean carriages or horses, or cause them to be washed or cleaned, in the streets or public ways; they shall keep their stables and stable yards clean, and no manure shall be allowed to accumulate or remain uncovered outside of the stable building.

SECT. 2. *Removal of Manure at certain times, without permit, prohibited.*—No person shall remove any manure, or cause or suffer the same to be removed, between the first day of May and the first day of November, except between twelve o'clock at night and two hours after sunrise, without a written permit from the Board of Health.

SECT. 3. *Manner of removing Manure.*—No manure shall be removed or carried through the streets of this city except in a tight canvas-covered vehicle, with the covering so secured to the sides and ends of the vehicle as to prevent the manure in process of removal from being dropped or left in any street or way of the city. No manure shall be loaded into a vehicle in or upon any street, lane, or passageway, nor upon or across any sidewalk, without a written permit from the Board of Health.

CHAPTER III.

PRIVY-VAULTS, CESSPOOLS, AND DRAINS.

SECTION 1. *To be cleansed.*—If the owner, agent, or occupant of any premises where a privy-vault, cesspool, or drain may be situated shall neglect or refuse to cleanse such vault, cesspool, or drain after being notified by the chief of police or by the Board of Health

or its agent that the same has become offensive, he shall be liable to the penalties provided by law.

SECT. 2. *Not to be emptied except as authorized by the Board of Health.* — No privy-vault or cesspool shall be emptied except by such parties, in such manner, and at such time as shall be specially authorized by the Board of Health. The owner, agent, or occupant of the premises where any privy-vault or cesspool may be situated shall always be liable for the expense of emptying the same.

SECT. 3. *Carting of Night-soil or other offensive matter through Streets.* — No person, unless specially authorized by the Board of Health, shall drive any cart, or other vehicle, containing, or used for conveying, night-soil or other offensive matter, in any street of the city, between the hours of 4 A. M. and 10 P. M., during the months of April, May, June, July, August, and September; nor between the hours of 5 A. M. and 9 P. M., during the months of October, November, December, January, February, and March; provided, however, that this regulation shall not be understood to conflict with the regulations of this board concerning "Stables and the Removal of Manure," nor to restrict the removal or carting of night-soil in carts such as are used in making such removal by what is commonly known as the "Odorless" process, provided such removal be made or carting done without emitting offensive odors in the streets.

CHAPTER IV.

HOUSE-OFFAL.

SECTION 1. *How to be Kept.* — All house-offal and refuse animal or vegetable substances shall be placed in suitable vessels and kept in some convenient place, to be removed by the persons duly authorized for that purpose by the Board of Health. Such vessels shall be kept covered, and shall not be permitted to become offensive.

SECT. 2. *Not to be Removed without Permit or Contract.* — No person shall remove or carry in or through any street, avenue, square, court, lane, place, or alley, within the city, any house-offal, or any offensive animal or vegetable substance, without a permit from, or contract with, the Board of Health, nor in any manner except such as shall be specified in such permit or contract.

CHAPTER V.

ASHES AND HOUSE-DIRT.

SECTION 1. *Removal of, etc.*—Ashes and house-dirt to be removed by the city shall be kept entirely free and apart from offal and filth of any kind, and shall be placed in barrels or other suitable vessels on the outer edge of the sidewalk, on such days and at such hours as the Board of Health shall from time to time designate, by notices left at the dwellings or otherwise.

CHAPTER VI.

DEAD ANIMALS AND OFFENSIVE SUBSTANCES.

SECTION 1. *Not to be thrown upon Ground or into any body of Water.*—No person shall deposit and leave exposed upon the surface of the ground, nor put into any body of water, in the city, any dead animal; nor shall any person throw or put into or upon any public or private way, lot of land, or body of water, any slops, decayed vegetables, fish, or other offensive substance whatsoever.

CHAPTER VII.

COLLECTING GREASE.

SECTION 1. *Permit for.*—No person shall collect or remove from any dwelling-house or other place in the city any grease, or refuse fatty matter, without first obtaining a permit so to do from the Board of Health, and in all respects complying with the conditions of such permit. All such permits shall expire on the first day of May, annually, and may be revoked at any time by the Board of Health; and no person shall receive such a permit without first paying to the clerk of said board, for the use of the city, the sum of \$2.00.

CHAPTER VIII.

GOATS AND SWINE.

SECTION 1. *Permit to Keep.*—No person shall keep a goat or swine within the limits of the city without first obtaining a permit so

to do from the Board of Health, and in all respects complying with the conditions of such permit. All such permits shall expire on the first day of May, annually, and may be revoked at any time by the Board of Health; and no person shall receive such a permit without first paying to the clerk of said board, for the use of the city, the sum of \$1.00 for each goat or swine to be kept. •

CHAPTER IX.

COWS.

SECTION 1. *Permit to Keep.*—No person shall keep, or allow to be kept, within the limits of the city, in any building, or on any premises, of which he may be the owner, lessee, tenant, or occupant, more than one cow, without a written permit from the Board of Health. Every person keeping a cow shall cause the place where it is kept to be well ventilated and drained, and kept at all times in a cleanly and wholesome condition. Such permit may be revoked at any time when such revocation shall appear to the board to be necessary for the public health and safety. All such permits shall expire on the first day of May annually.

CHAPTER X.

RENDERING.

SECTION 1. *Forbidden except at Premises Assigned.*—By virtue of the authority given in chapter 80 of the Public Statutes, the Board of Health of the city of Somerville hereby forbids the exercise of the trade or employment of rendering tallow (other than fresh tallow), lard, grease, fat, bones, or other refuse animal matter, within the limits of the city of Somerville, except at such places as have been or may hereafter be assigned by said board; such trade or employment being in the opinion of the board a nuisance, hurtful to the inhabitants, and the exercise of which is attended by noisome and injurious odors.

APPROPRIATION FOR HEALTH DEPARTMENT AND EXPENDITURES THEREFROM, 1892.

CREDIT.

Appropriation	\$8,000 00
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Receipts :—

For permits to keep swine and goats and to collect grease, rent of land on Melrose street for use for offal	213 00 50 00
--	---------------------

Total credit	\$8,263 00
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DEBIT.

Expenditures :—

For agent's salary	\$1,100 00
collecting ashes	4,375 00
collecting offal	4,283 08
burying dead animals . . .	106 50
vaccine virus	14 99
books, stationery, printing, etc.	277 30
care of ash dumps	112 25
rent of post-office box . . .	4 00
sulphur	9 53
oil of peppermint	7 14
fumigating	6 50
filling Wigglesworth-street pit, investigation and report upon alleged nuisances at North's and Squire's factories . . .	25 00 500 00
assistance to agent investigat- ing nuisances	56 25
chemical analysis of water . .	8 00
rent of land on Melrose street,	50 00

<i>Amounts carried forward . . .</i>	\$10,935 54	\$8,263 00
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<i>Amounts brought forward</i>	\$10,935 54	\$8,263 00
bedding destroyed by fumiga- tion	5 00	
services of nurse	15 00	
wagons and sleds	615 00	
painting and repairs of same,	160 77	
tools	13 25	
car fares	36 05	
carriage hire	33 00	
incidentals	3 15	
	<hr/>	
Total debit		11,816 76
		<hr/>
Amount overdrawn		\$3,553 76

J. FRANK WELLINGTON, *Chairman.*
 CHARLES H. CRANE.
 A. B. DEARBORN.

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REPORT
OF THE
CITY PHYSICIAN.

CITY OF SOMERVILLE.

IN BOARD OF ALDERMEN, February 8, 1893.

Referred to the committee on printing, to be printed in the annual reports.
Sent down for concurrence.

GEORGE I. VINCENT, *Clerk.*

IN COMMON COUNCIL, February 15, 1893.

Concurred in.

CHARLES S. ROBERTSON, *Clerk.*

CITY OF SOMERVILLE.

OFFICE OF THE CITY PHYSICIAN, January 1, 1893.

To His Honor the Mayor and the City Council:—

The following is a summary of my work as city physician for the year ending December 31, 1892:—

Number of visits made, 816.

Two hundred and twenty-four persons have been treated at the office. The number of cases of contagious diseases attended has been exceptionally small, and they are as follows: Diphtheria, 2; scarlet fever, 14; measles, 5; typhoid fever, 4; pneumonia, 7.

The largest number of deaths is from consumption; out of the fourteen cases treated, twelve have died. The deaths from this disease have, no doubt, been hastened by the unsanitary conditions so often found in and around the homes of the poor, including a lack of proper food and clothing.

Four certificates have been given where persons died unattended by a physician.

One hundred and sixty-two children have been vaccinated.

Number of persons treated at the police station, twelve.

Six women have been attended in childbirth.

Respectfully submitted,

ALVAH B. DEARBORN,

City Physician.

REPORT

OF THE

TRUSTEES OF THE PUBLIC LIBRARY.

CITY OF SOMERVILLE.

IN COMMON COUNCIL, January 18, 1893.

Referred to the committee on printing, to be printed in the annual reports.
Sent up for concurrence.

CHARLES S. ROBERTSON, *Clerk*.

IN BOARD OF ALDERMEN, January 25, 1893.

Concurred in.

GEORGE I. VINCENT, *Clerk*.

CITY OF SOMERVILLE.

To the City Council of Somerville:—

GENTLEMEN,—The trustees of the Public Library respectfully submit the following report for the year 1892:—

The total number of books now belonging to the library is 21,024, showing an increase of 1,305 during the year. Of this a considerable number of old books by donation constitutes a portion.

The number of issues of books was 96,311.

The condition of the library and the continued demand for the supply of its wants seem to warrant the trustees in asking for a liberal appropriation. The amount placed in their hands last year proved to be inadequate for the current expenses, and the payment of a number of bills was necessarily extended and the purchase of valuable publications withheld. This state of things arose partially from some confusion in regard to the “dog tax.” The amount credited to the library fund was found to be smaller than in previous years, and much less than the trustees had reason to expect. The amount received from the dog tax in 1891 was \$2,596.66, while in 1892 only \$1,003.97 was received. It will be well in the future to obtain the amount of the dog tax, if possible, before making the appropriation.

There are other causes which will render a larger expenditure to maintain properly the Public Library for the ensuing year unavoidable:—

1. It has been proposed to broaden and extend its privileges, especially in limiting the age of children at fourteen years, instead of sixteen, who shall be allowed to take out books. It is also proposed

to extend the same privileges to the pupils of the High School and the first class in the grammar schools, irrespective of age.

2. The constant wear and tear of books is always expected, however much dreaded. The incessant use of popular works can have but one result, and that is the annihilation of the material of which they are made, and duplicates must be supplied to repair the loss. This year has furnished no exception to the rule.

3. The attention of the trustees has been called to the injurious effect which the burning of gas has upon the bindings of books, and the suggestion has been made that electric lighting be substituted. A further advantage by such a change will be apparent, as the risk of fire will be thereby diminished. The superiority of electric over gas light will be generally acknowledged. The expense of such a change has not yet been ascertained. A careful estimate will, however, in due time be made of this, as well as of the other items that go to make up the equipment of the library, and submitted later to the City Council.

4. The acquisitions to the library are, with rare exceptions, made by purchase. Hardly a notable donation has been made for many years. The supply for its support must be, therefore, mainly derived from the taxes of property holders. To meet the wants of a rapidly increasing population, there must be a corresponding outlay.

It is not necessary here to descant on the blessings and benefits which a good and well-ordered public library may furnish to our rapidly growing population. As an important instrument and aid in the education of youth, its advantage will be acknowledged. At all events, it has become an established institution, to be maintained at public expense. The trustees, therefore, can have no reluctance in making this their annual appeal for an ample allowance to be placed at their disposal.

CHARLES S. LINCOLN, *President.*

December, 1892.

LIBRARIAN'S REPORT.

GENTLEMEN, — The twentieth annual report which I have had the honor of presenting to you shows the condition and wants of the library.

BOOKS.

We have now 21,024 books belonging to the library, 1,427 having been added, and 152 withdrawn during the year. Among books added to the reference library are : "History of the Orders of Knighthood," "Glimpses of the World," "Century Dictionary," "Dramatic Year Book," "Eminent Scotsmen," "Debates in Massachusetts Convention," "Allibone's Dictionary Supplement," "History of Plymouth County," "History of Essex County," "History of Worcester County," "Magnalia Christi Americana," "The Soldier in the Civil War," "History of the Tower of London," "Essex Historical Collection," "New Hampshire Historical Collection," "Photographs of the World," "Dictionary of Hymnology," "Exposition Universelle," "Greek and Roman Antiquities," and others.

For general circulation we have added "Across Thibet," "Journeyings in Persia," "Ceylon," "Palms and Pearls," "Sweden and the Swedes," "Mahdiism," "Messages of the Books," "History of Art," "Dynamo Electric Machinery," "Comparative Embryology," "Studies in Chaucer," "Memorials of Edinburgh," "Three Episodes of Massachusetts History," "Life of Cotton Mather," "Life of Paul Revere," "Memoirs of General Heath," "History of King Philip's War," "Chronicles of the Pilgrims," "Duruy's History of Greece," "Decisive Events," and others.

The number of books purchased is much smaller than usual, owing to the greatly reduced sum available this year for the purchase of books and other necessary expenses.

The library has been open 304 days, and 96,381 books have been given out. For home use, 95,248, and for reference, 1,063.

Through our two agencies 9,729 books have been delivered and returned with but small expense, and in one case received without remuneration. The thanks of our committee are due to one who is willing to serve the cause of the library in this way.

CIRCULATION.

The largest number given out in any month was 10,462, in March; the smallest number given out in any month was 6,053, in July.

The largest number given out on any day was 838, on March 19; the smallest number on any day was 131, on July 25. The number of names registered was 1,732. The number of books covered was 14,337.

Eighty-three books have been presented to the library by the following persons:—

C. H. Guild, 1.
Mrs. M. Munroe, 1.
Hon. W. H. Hodgkins, 1.
G. A. Gordon, 1.
Boston School Committee, 29.
C. S. Lincoln, 12.
Mrs. H. E. Creighton, 35.
E. B. Stillings & Co., 1.
A. Friend, 1.
H. F. Woods, 1.

It is pleasant to know that a book has been read and enjoyed before being presented to the library, where its usefulness will be demonstrated over and over again. We can imagine an interest in the library so great that its shelves might be enriched with many a choice volume, and whole ranges be named (as they are in some libraries) for some generous donor. For there is never any danger of a public library being full. Books may accumulate and the building be crowded to overflowing, but the library itself can never be full.

As there is no limit to knowledge, so there is no limit to the demand for it, and there can never be too many new books to meet the wants of all.

Teachers and scholars are now well supplied with cards. All the pupils of the High School, as well as the highest class of the grammar schools, being allowed to have cards; at the age of fourteen, also, any resident of the city is entitled to a card, in accordance with the new rule of the committee. This rule has but just gone into operation, so that no record of its success can be made.

We always welcome with pleasure the suggestions of those versed in any specialty with regard to the books desirable for us to obtain in their department.

In that way I have found books proposed which might not so soon have been entered in the library, and which were immediately in demand. "Experimental Science" is one such book of which we have more than one copy, and could use twice as many.

"Our Country," by Strong, is another, which, when returned to us, is always commended as the very best of its kind.

H. A. ADAMS, *Librarian*.

FINANCIAL STATEMENT OF CITY TREASURER.

CR.

Balance from 1891	.	.	.	.	\$3 48
Appropriation	.	.	.	.	4,000 00
Dog licenses	.	.	.	.	1,003 97
Fines	.	.	.	.	420 14
Catalogues	.	.	.	.	33 90
A. S. Hudson	.	.	.	.	4 00
					<hr/>
					\$5,465 49
Balance to 1893	.	.	.	.	335 44
					<hr/>

\$5,800 93

DR.

Salaries	.	.	.	.	.	\$2,110 07
Books	.	.	.	.	.	2,112 98
Printing and stationery	.	.	.	.	.	269 96
Binding	.	.	.	.	.	137 35
Newspapers	.	.	.	.	.	12 00
Gas	.	.	.	.	.	197 28
Fuel	.	.	.	.	.	18 00
Water	.	.	.	.	.	29 00
Repairs	.	.	.	.	.	9 64
Furniture	.	.	.	.	.	102 00
Gas fixtures	.	.	.	.	.	130 75
Steam fittings	.	.	.	.	.	460 73
Expressing	.	.	.	.	.	103 27
Incidentals	.	.	.	.	.	7 90
Branch office	.	.	.	.	.	100 00
						<hr/>

\$5,800 93

REPORT
OF THE
COMMITTEE ON HIGHWAYS.

CITY OF SOMERVILLE.

IN BOARD OF ALDERMEN, February 23, 1893.

Referred to the committee on printing, to be printed in the annual reports.
Sent down for concurrence.

GEORGE I. VINCENT, *Clerk*.

Concurred in.

IN COMMON COUNCIL, March 1, 1893.

CHARLES S. ROBERTSON, *Clerk*.

CITY OF SOMERVILLE.

IN COMMITTEE ON HIGHWAYS, January 2, 1893.

To the City Council:—

GENTLEMEN, — The committee on highways presents the following report for the year ending December 31, 1892 : —

HIGHWAYS ACCOUNT.

CREDIT.

Appropriation	\$55,000 00
-------------------------	-------------

Receipts and credits : —

For labor and materials furnished prior to January 1, 1892, the bills for which remained uncol- lected that day	\$263 61	
Watering streets account (paving around stand-pipes)	109 25	
	<hr/>	372 86
Value of gravel and sand taken from Wild Cat Hill,		1,950 85
Value of materials on hand January 1, 1892 . . .		423 75
Value of tools and property on hand January 1, 1892,		11,293 65
Net profit on tools, property, and materials . . .		1,397 96
		<hr/>
Total credit		\$70,439 07

DEBIT.

Expenditures:—

For laying out Essex, Crocker, Summer streets, Stone avenue and Partridge avenue (advertis- ing notices of hearings)	\$73 90
--	---------

Construction of Streets:—

Arthur street, Broadway to Bonair,	\$169 10	
Francesca avenue, Elm street to Liberty avenue	502 40	
Green street, Summer to Laurel street	396 60	
Grove street, Arlington Branch R. R. to Morrison street . . .	104 00	
Moore street, Holland to Mead street	825 46	
Richdale avenue, Sycamore to School street	432 10	
Tennyson street, Broadway to Med- ford street	814 90	
Thurston street, between Medford street and Richdale avenue .	176 40	
Tremont street, Webster avenue to Cambridge line	256 00	
Winslow avenue, Elm street to Grove street	206 95	
	<hr/>	3,883 91
street crossings		2,420 73
street signs erected		54 70

Repairs and improvements of streets
and paving of gutters in connec-
tion with setting of edgestones:—

Arthur street, both sides, Broad- way to Bonair, paving . . .	\$367 40	
<i>Amounts carried forward . . .</i>	<hr/> \$367 40	<hr/> \$6,433 24

<i>Amounts brought forward</i> .	\$367 40	\$6,433 24
Berkeley street, both sides, near Hersey to Central street, paving	578 20	
Broadway, southwest side, Walnut to Cross, paving	503 10	
Broadway, southwest side, Nor- wood avenue to Magoun square, paving	383 00	
Broadway, in front of Lincoln School lot, paving	27 50	
Chauncey avenue, west side, Broad- way to Jaques street, paving . .	137 25	
Elm street, west side, Chapel to Summit street, paving	140 90	
Evergreen avenue, west side, Thurs- ton to Sycamore street, paving .	100 30	
Gilman street, north side of estate of Osgood to Jasper street, pav- ing	97 90	
Gilman street, south side, Aldrich to Walnut, paving	233 60	
repairs	593 35	
Green street, easterly side, Sum- mer street to angle, paving . .	113 00	
Grove street, south side, Highland avenue to southwest line of Highland School lot, paving . .	27 15	
Hathorn street, east side, Broad- way to Arlington street, paving,	91 30	
Highland avenue, at Highland School lot, paving	41 00	
Jaques street, east side, Temple to Grant street, paving	104 65	
repairs	333 30	
Jaques street, west side, Temple to Wheatland street, paving . .	232 40	
<i>Amounts carried forward</i> . .	<hr/> \$4,105 30	<hr/> \$6,433 24

<i>Amounts brought forward</i>	\$4,105 30	\$6,433 24
Joy street, at Bennett School lot, paving	42 25	
Lincoln street, in front of estate of Junkins and als., paving	68 15	
Linden avenue, east side, Elm to Summer, paving	397 55	
Linden avenue, west side, Elm to Summer, paving	322 95	
repairs	442 70	
Madison street, north side, School to Sycamore, paving	312 70	
Maple street, in front of Jackson School lot, paving	46 70	
Mason avenue, paving	48 10	
Medford street, west side, Lowell R. R. bridge to Walnut street, paving	251 90	
Medford street, in front of A. W. Follett's estate, corner Broad- way, paving	74 00	
Montrose street, north side, School to Sycamore, paving	278 30	
Myrtle street, in front of estates Nos. 34 and 36, paving	22 05	
Oliver street, north side, Franklin to Glen, paving	160 75	
Oliver street, south side, Franklin to Glen, paving	117 30	
repairs	290 70	
Orchard street, south side, Day street, southeasterly, to Cam- bridge line, paving	249 40	
Orchard street, north side, Chester street, southeasterly, to Cam- bridge line, paving	99 20	
repairs	278 70	
<i>Amounts carried forward</i>	\$7,608 70	\$6,433 24

<i>Amounts brought forward</i> .	\$7,608 70	\$6,433 24
Poplar street, in front of Bennett School lot, paving	59 90	
Porter and Carver streets, in front of estate of E. B. Morgan, paving	39 40	
School street, in front of estate of O. H. Fuller, near Madison street, paving	24 50	
Tremont street, both sides, Webster avenue to Cambridge line, paving	333 25	
Washington street, north side, Medford street to Lowell R. R. bridge, paving	100 30	
Walnut street, west side, Highland avenue to near Summit avenue, paving	75 91	
William street, in front of estate of C. H. Lockhart, paving	34 90	
	<hr/>	8,276 86
cost to city of sidewalks, the bricks and edge-stones for which were furnished or paid for by the abutters (see Table D at the end of this report)		581 36
repairs of Broadway, from Cross street to Marshall street, on account of construction of Broadway Parkway and consequent relaying of street railway		5,272 20

Ordinary repairs of streets:—

Beacon street, Ivaloo to Kent street	\$857 50	
Bond street, Broadway to Heath street	346 00	
Central street, Broadway to Medford street	800 30	
	<hr/>	
<i>Amounts carried forward.</i> .	\$2,003 80	\$20,563 66

<i>Amounts brought forward</i>	\$2,003 80	\$20,563 66
Cross street, Pearl to Medford street	449 20	
Davis square	387 50	
Day street, Davis square to Cambridge line	457 70	
Grove street, Lowell R. R. to Morrison street	229 50	
Linwood street, Washington street to Somerville avenue . . .	2,507 60	
Medford street, Somerville avenue to Cambridge line	1,408 80	
Middlesex avenue, Mystic avenue to Wellington bridge	1,885 10	
Mystic avenue, from near Temple street, westerly 50 feet . . .	62 00	
Pleasant avenue, Vinal avenue to Walnut street	278 70	
Sycamore street, Medford street to Broadway	560 50	
general repairs	13,106 76	
	<hr/>	23,337 16
repairs of stone paving		177 38
removing snow and ice and care of slippery sidewalks		1,368 43
repairs of brick sidewalks		360 83
cleaning streets		3,960 25
cleaning and repairing streets after the construction of sewers and catch-basins		171 20
trimming trees		643 20
repairs of Boston-avenue bridge		156 90
taking up old culvert on Somerville avenue .		46 88
building retaining wall, Washington street, between Medford street and the Lowell R. R. bridge		760 00
Oliver street, sidewalk assessment		69 40
Tremont street, sidewalk assessment		4 62
<i>Amount carried forward</i>		<hr/> \$51,619 91

<i>Amount brought forward</i>		\$51,619 91
Berkeley street, sidewalk, at Hersey street		4 84
Webster avenue, sidewalk, corner Newton street and Webster avenue		31 90
resetting edgestones, Oliver street		65 27
one-half cost of maintenance of Middlesex-avenue bridge, the other half being paid by the town of Medford		604 29
tax on Waltham gravel land		131 75
tax on Wakefield gravel land		32 38
shed at gravel pit		104 54
repairs and water tax at dwelling at City Farm	\$255 16	
less rent of same	168 00	
		87 16
superintendent's salary		1,600 00
board of superintendent's horses		418 31
superintendent's telephone		40 00
books, stationery, and printing		63 25
sundry small expenses		153 88
private work, the bills for which remain uncol- lected		532 46
materials furnished sidewalks account, not paid for		02
Value of materials on hand this day		2,485 00

Value of tools and personal property on hand this
day: —

horses	\$3,900 00
carts and implements used with horses	2,663 00
harnesses and horse clothing	387 00
stable utensils and property	100 00
tools	276 10
stone crusher, engine, and fittings, with bins and sheds	1,384 75

<i>Amounts carried forward</i>	\$8,710 85	\$57,974 96
--	------------	-------------

<i>Amounts brought forward</i>	.	\$8,710 85	\$57,974 96
steam road roller . . . .	.	3,503 50	
		<hr/>	12,214 35
Total debit . . . . .	.		<hr/>\$70,189 31
Balance unexpended . . . . .	.		<hr/>\$336 41

Labor and materials have also been furnished and property sold, for which payment has been received by the city treasurer, and credit received from other accounts as follows : —

Private parties, constructing driveways and sidewalks, sale of old horses and other property	\$1,197 94
Watering streets account, paving around stand-pipes, Public property account, setting curbstone at Lincoln School	109 25
	23 00
Public property account, setting curbstone at Charles G. Pope School	33 10
Sidewalks account, materials and use of horses	1,837 75
	<hr/>
Total	<hr/> \$3,201 04

The profit and loss account on city teams, tools, property, and materials is as follows : —

CREDIT.

Holland-street ledge	\$539 14
Edgestones and paving stock	1,699 31
City teams	424 88
	<hr/>
Total	\$2,663 33

DEBIT.

Steam road roller (depreciation)	\$49 50
Repairs of steam road roller	14 50
Tools (depreciation)	470 04
Repairs of tools	242 56
	<hr/>
<i>Amounts carried forward</i>	\$776 60
	<hr/> \$2,663 33

<i>Amounts brought forward</i>	\$776 60	\$2,663 33
Stone-crusher and fittings (depreciation)	153 50	
Crushed stone (to which account is charged repairs at crusher)	335 62	
	<hr/>	
Total		\$1,265 37
		<hr/>
Excess of charges over cost, as stated on page 331		\$1,397 96
		<hr/>

No charge has been made for the use of the steam road roller used on the several streets, except for the time of the engineer.

Crushed stone used on the streets has been charged at the rate of seventy-five cents for each single-horse load at the crusher; and for ballast used, ten cents per single-horse load.

Gravel and sand has been charged at the rate of twenty-five cents for each one-horse load at the bank, being the same price as charged last year.

Number of loads of gravel taken from North-street bank	7,150
Number of loads of sand taken from North-street bank,	616
Number of loads of stone for crusher from Holland-street ledge	6,840
Number of loads of stone for crusher from North-street bank	289
Number of loads of stone crushed	6,154

The charges to the city teams account are as follows:—

Horses (depreciation)	\$1,005 00
Carts and implements used with horses (depreciation),	254 82
Repairs of same	704 18
Harnesses and horse clothing (depreciation)	54 00
Repairs of same	450 26
Stable utensils and property (depreciation)	46 20
Stable expenses and repairs	713 68
Grain and feed	2,652 68
	<hr/>
<i>Amount carried forward</i>	\$5,880 82

<i>Amount brought forward</i>	.	.	.	.	\$5,880 82
Hay and straw	.	.	.	.	1,930 85
Horseshoeing	.	.	.	.	604 28
Horse medicine and doctoring	.	.	.	.	308 17
Total	.	.	.	.	<u>\$8,724 12</u>

The credit to the account amounts to \$9,149, being at the rate of \$1.40 per horse for each day he has worked during the year, which shows a credit to city teams account of \$424.88, as shown on page 338.

The above statement does not include the keeping or use of the superintendent of streets' team, the cost of which is kept separately, as stated in the schedule of expenditures.

Ten new horses have been purchased during the year, and six sold; four have died, making the total number, including the two used by the superintendent of streets, in charge of the department to December 31 twenty-six.

The Winchester gravel land has been sold during the year to Mr. Patrick Nelson, for the sum of \$200.

SIDEWALKS ACCOUNT.

CREDIT.					
Appropriation	.	.	.	.	\$10,000 00
Credit from sale of Winchester gravel land	.	.	.	.	200 00
Credit from highways account, materials not paid for	.	.	.	.	02
Total credit	.	.	.	.	<u>\$10,200 02</u>

DEBIT.

Expenditures:—

For 35 sidewalks, as per table C at the end of this report,	\$20,438 05	
less assessments,	10,219 04	
	<u>\$10,219 01</u>	
<i>Amounts carried forward.</i>	\$10,219 01	<u>\$10,200 02</u>

<i>Amounts brought forward</i>	.	\$10,219 01	\$10,200 02
advertising notices of hearings	.	25 00	
		<hr/>	
Cost to city	.		10,244 01
			<hr/>
Amount overdrawn	.		\$43 99
			<hr/>

EDGESTONES AND PAVING STOCK.

Lineal feet of edgestones set (including 250 feet reset), 18,477.3 ;
square yards of brick paving laid (including 100 yards relaid), 6,318 ;
square yards of stone paving laid, 6,448.

BROADWAY PARKWAY ACCOUNT.

CREDIT.

Appropriation	.	\$4,500 00	
Transfer from Highland Schoolhouse addition account	.	23 41	
Transfer from schoolhouse in Ward Three account	.	773 87	
West End Street Railway Company (loan)	.	247 95	
		<hr/>	
Total credit	.		\$5,545 23

DEBIT.

Expenditures : —

For labor	.	\$977 50	
teaming	.	154 90	
trees	.	67 00	
stone posts	.	90 00	
edgestones	.	1,053 41	
lime and cement	.	3 90	
ribbon wire and staples	.	18 86	
sods	.	284 13	
		<hr/>	

<i>Amounts carried forward</i>	.	\$2,649 70	\$5,545 23
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<i>Amounts brought forward</i>	.	\$2,649 70	\$5,545 23
fertilizer	25 00	
grass seed	16 00	
loam	2,774 93	
wooden stakes	. . . . .	8 37	
catch-basin	. . . . .	67 17	
		<hr/>	
Total debit	. . . . .		5,541 17
			<hr/>
Balance unexpended	. . . . .		\$4 06
			<hr/>

BROADWAY PARKWAY.

Under authority of an order passed by the City Council, dated January 27, a parkway has been constructed in the centre of Broadway, from Cross street to near Sargent avenue, at an expense of \$5,541.17. The cars of the West End Street Railway Company run through the parkway, and on each side of the track the park is sodded. Sixty-seven trees have been set out. The construction of the parkway not only adds greatly to the personal appearance of this part of the highway, but will also materially decrease the expense of keeping this part of Broadway in repair, it being at the point of its greatest width.

HIGHWAYS, PAVING UNION SQUARE AND PARTS OF
SOMERVILLE AND WEBSTER AVENUES ACCOUNT.

CREDIT.

Appropriation	. . . . .	\$100,000 00	
Receipts : —			
Jeremiah McCarthy, recutting flag-			
ging	. . . . .	74 09	
		<hr/>	
Total credit	. . . . .		\$100,074 09
			<hr/>
<i>Amount carried forward</i>	. . . . .		\$100,074 09

Amount brought forward \$100,074 09

DEBIT.

Horatio Gore & Co., contractors	. \$18,965 38	
William H. Gore & Co., contractors	. 13,555 74	
Paving blocks	56,115 50	
Granite flagging	3,160 33	
Wharfage	1,200 40	
Edgestones	590 95	
Bricks	712 35	
Lumber	5 51	
Tools	12 00	
Moving poles	9 80	
Labor	1,385 17	
Teaming	77 50	
Advertising contracts	90 35	
Printing contracts	74 30	
Car fares	16 72	
		<hr/>
Total debit		95,972 00
		<hr/>
Balance unexpended		\$4,102 09

PAVING UNION SQUARE AND PARTS OF SOMERVILLE AND WEBSTER AVENUES.

Under authority of an order passed by the City Council, dated July 13, a contract was made with the Rockport Granite Company for the furnishing of such paving blocks as should be required for the paving of Union square, Somerville avenue, from Medford street to Park street, and Webster avenue, from Union square to the Fitchburg railroad crossing. A contract was also made, under authority of an order dated July 27, with Messrs. Horatio Gore & Co., and with William H. Gore & Co., for paving the same. The work has been completed during the year, at a cost of \$96,249.77. This sum includes the entire expense, except the cost of removing the gravel which was spread over the paving at the time it was laid, and the amount reserved under the terms of the contracts, amounting to

\$3,562.12. This is deemed an economical measure, as the heavy travel over this portion of the city has each year involved a large expenditure of money.

TABLES.

Tables are furnished herewith, giving lists of streets accepted, streets improved, sidewalks constructed for which one-half the cost was assessed, sidewalks constructed the bricks and edgestones for which were furnished by the abutters, driveways constructed at the abutters' expense, and crossings laid.

WILLIAM L. BARBER, *Chairman.*

WILLIAM P. MITCHELL, *Clerk.*

TABLE A.
STREETS ACCEPTED.

NAME.	FROM.	TO.	LENGTH IN FEET.
Crocker	Highland Avenue . .	Crown Street . . .	528
Essex	Medford Street . . .	Richdale Avenue . .	232
Francesca Avenue . . .	Elm Street	Liberty Avenue . . .	762
Greene	Summer Street	Laurel Street	555
Grove	Arlington Branch R.R.	Morrison Street . . .	325
Heath	Temple Street	Bond Street	1,043
Hudson	Central Street	Lowell Street	1,368
Partridge Avenue . . .	Broadway	Vernon Street	1,457
Stone Avenue	Union Square	Columbus Avenue . . .	676
Summit	Elm Street	Billingham Street . . .	262
Winslow Avenue	Elm Street	Grove Street	514

TABLE B.
STREETS IMPROVED.

STREET.	FROM.	TO.	IMPROVEMENT.	FEET.
Arthur	Broadway	Bonair Street . . .	Gravelled	438
Beacon	Ivaloo Street	Kent Street	Macadamized	500
Bond	Broadway	Heath Street	Macadamized	350
Broadway	Cross Street	Marshall Street . . .	Macadamized	2,350
Central	Broadway	Medford Street . . .	Macadamized	1,100
Cross	Pearl Street	Medford Street . . .	Macadamized	1,600
Day	Davis Square	Cambridge Line . . .	Gravelled	940
Davis Square	Elm Street	Holland Street . . .	Macadamized	200
Francesca Avenue . . .	Elm Street	Liberty Avenue . . .	Ballast	762
Gilman	Aldrich Street	Walnut Street	Macadamized	700
Greene	Summer Street	Laurel Street	Macadamized	555
Grove	Arlington R. R. . . .	Morrison Street . . .	Ballast	340
Jaques	Temple Street	Grant Street	Macadamized	700
Linden Avenue	Summer Street	Elm Street	Ballast	1,050
Linwood	Washington Street . .	Somerville Ave. . . .	Macadamized	2,050
Mason Avenue	Orchard Street	Cambridge Line . . .	Macadamized	220
Medford	Somerville Avenue . .	Cambridge Line . . .	Ballast	770
Middlesex Ave.	Mystic Avenue	Wellington B'dge . . .	Ballast	3,000
Moore	Holland Street	Mead Street	Macadamized	695
Mystic Avenue	Near Temple St. . . .	Westerly	Ballast	50
Oliver	Glen Street	Franklin Street . . .	Macadamized	470
Orchard	Russell Street	Chester Street	Gravelled	550
Pleasant Avenue	Vinal Avenue	Walnut Street	Macadamized	470
Richdale Avenue	Sycamore Street	School Street	Gravelled	875
Sycamore	Medford Street	Broadway	Macadamized	1,250
Tennyson	Medford Street	Forster Street	Macadamized	469
Thurston	Medford Street	Richdale Avenue . . .	Gravelled	310
Tremont	Webster Avenue	Cambridge Line . . .	Ballast	589
Winslow Avenue	Elm Street	Grove Street	Ballast	514
Total length	improved (in feet)			23,867

TABLE C.

SIDEWALKS CONSTRUCTED WHERE THE MATERIALS AND LABOR WERE FURNISHED BY THE CITY, AND ONE-HALF OF THE COST WAS ASSESSED UPON THE ABUTTING ESTATES.

STREET.	SIDE.	FROM.	TO.	FEET OF EDGESTONES.	YARDS OF BRICKS.	COST.
Arthur	Both . .	Broadway	Bonair Street . .	940.5	-	\$663 69
Berkeley	Both . .	Central Street . .	Hersey Street . .	1,370.7	-	1,013 55
Broadway	South W	Cross Street . . .	Walnut Street . .	1,337.2	-	1,030 84
Broadway	South W	Norwood Avenue .	Medford Street . .	523.1	-	420 18
Broadway	South W	Easterly line Lincoln School lot .	Westerly line Lincoln School lot .	257.9	165	308 51
Chauncey Avenue	North W	Broadway	Jaques Street . .	476.6	403.8	755 04
Dover	South E	Davis Square . . .	Cambridge Line . .	-	626	630 20
Elm	North W	Chapel Street . . .	Summit Street . .	475.9	481.3	891 55
Evergreen Ave. .	South W	Thurston Street . .	Sycamore Street . .	333	213	444 79
Gilman	South W	Aldrich Street . .	Walnut Street . .	668.2	-	438 49
Gilman	North E	Westerly line estate C. B. Osgood . .	Jasper Street . .	246.4	174.4	413 60
Greene	South E	Summer Street . .	Angle in street . .	308.5	-	309 65
Grove	South E	Highland Avenue .	South'y line Highland School lot .	56.4	115	222 72
Hathorn	South E	Broadway	Arlington Street .	329.4	-	219 02
Highland Avenue	South W	Grove Street . . .	Easterly line Highland School lot .	137.4	130	233 60
Jaques	South W	Temple Street . . .	Wheatland Street .	821.8	-	548 29
Jaques	North E	Temple Street . . .	Near Grant Street .	475.7	-	372 04
Joy	South W	Poplar Street . . .	Northerly line Bennett School lot .	149.5	-	116 86
Linden Avenue .	North W	Elm Street	Summer Street . .	1,120	-	820 80
Linden Avenue .	South E	Elm Street	Summer Street . .	1,127.2	-	1,187 01
Linwood	South W	Somerville Avenue	Washington Street	-	1,840	1,810 30
Madison	North E	School Street . . .	Sycamore Street . .	912.7	-	786 10
Maple	South W	Poplar Street . . .	North'y line Jackson School lot .	129.6	-	90 69
Medford	South W	Walnut Street . . .	Boston & Lowell Railroad Bridge .	626.7	-	411 94
Montrose	North E	School Street . . .	Sycamore Street . .	912.1	-	673 95
Oliver	North E	Glen Street	Franklin Street . .	478.5	316.8	682 63
Oliver	South W	Glen Street	Franklin Street . .	390.8	269	587 20
Orchard	South W	Day Street	Cambridge Line . .	86.2	-	555 75
Orchard	North E	Chester Street . . .	Cambridge Line . .	539.1	386	846 90
Poplar	North W	Joy Street	Westerly line Bennett School lot .	149.3	-	98 03
Summit Avenue .	North E	Vinal Avenue . . .	Westerly line estate B. F. Thompson .	-	130.6	184 75
Tremont	Both . .	Webster Avenue . .	Cambridge Line . .	1,195.2	-	734 01
Washington . . .	North . .	Medford Street . .	Tufts Street . . .	449.5	523.3	1,191 34
Webster Avenue .	East . .	Everett Street . . .	Fitchburg Railroad	302.2	-	247 45
Wesley Park . .	Both . .	Bow Street	Northeasterly . .	-	443.9	496 58
Total				18,227.3	6,218.1	\$20,438 05

TABLE D.

SIDEWALKS CONSTRUCTED WHERE THE EDGE-STONES AND BRICKS WERE FURNISHED OR PAID FOR BY THE ABUTTERS.

FOR.	STREET.	FEET OF EDGE-STONES.	YARDS OF BRICK.
Suther Blaikie	Hillside Avenue	134.7	-
Marilla J. Butler	Prospect Hill Avenue	-	107
Mathew Carley	Myrtle Street	20.8	15
Jemima S. Carvill	Walnut Street	95.5	-
Mary E. Chase	Beacon Street	-	150
H. A. Clary	Lincoln Avenue	32.6	-
Henry Doaghey	Prospect Hill Avenue	-	35
Charles Drouet	Wesley Park	-	50
Caroline M. Egin	Appleton Street	-	80
Anna Elston	Greene Street	-	31
A. Ward Follett	Medford Street, corner Broadway	167.7	-
O. H. Fuller	School Street	73	-
Mary T. Graham	Greene Street	-	67
David D. Gregg	Greene Street	54	35
Ceylon Hoyt	Evergreen Avenue, cor. School Street	-	70
L. D. Junkins	Lincoln Avenue	45.1	-
M. P. Lewis	Lincoln Avenue	64.2	-
Charles H. Lockhart	William Street	96.1	-
Mason Avenue	Orchard Street to Cambridge Line	442.7	-
Ellen McCarren	Greene Street	-	30
Edward B. Morgan	Porter Street, corner Carver Street	226.4	-
Herbert W. Raymond	Wesley Park	-	4
Edward S. Sparrow	Elm Street, corner Highland Avenue	-	130
George M. Stevens, trustee	Walnut Street	75.7	60
Eugene Stilphen	Lincoln Avenue	34.5	-
Jonathan Stone	Stone Avenue	95	-
James A. Strout	Greene Street	13.7	-
Charles F. Swan	Greene Street	13.7	-
Daniel Sullivan	Myrtle Street	20.8	15
Mary E. Vinal	Webster Avenue	-	50
J. Frank Wellington	Summit Avenue	-	18
G. H. Wildes	Dover Street	-	45
Totals . . . . .	. . . . .	1,706.2	992

TABLE E.
DRIVEWAYS CONSTRUCTED (AT EXPENSE OF ABUTTERS).

FOR.	LOCATION.
William Armstrong & Co.	Somerville Avenue
William J. McLean	32 Concord Avenue
George E. Newcomb	32 Glen Street
Father O'Brien	Summer Street
John P. Squire & Co.	Medford Street

TABLE F.

CROSSINGS CONSTRUCTED.

Ames street, in line with westerly side of Central street.
Beacon street, in line with westerly side of Sacramento street.
Browning road, in line with westerly side of Central street.
Cross street, in front of Baptist Church.
Cross street, in line with southerly side of Chester avenue.
Concord avenue, at junction of Newton street.
Davis square, in line with southerly side of Dover street.
Davis square, in line with easterly side of Highland avenue.
Dover street, in line with westerly side of Elm street.
Delaware street, in line with westerly side of Pearl street.
Elm street, in line with easterly side of Morrison street.
Medford street, in line with westerly side of Adams street.
Medford street, in line with westerly side of Sycamore street.
Medford street, in line with westerly side of Central street.
Medford street, in line with easterly side of School street.
Magoun square, across Medford street.
Newton street, at junction of Concord avenue.
School street, in line with easterly side of Medford street.
Summer street, in line with southerly side of Spring street.
Washington street, in line with southerly side of Joy street.

REPORT
OF THE
COMMITTEE ON SEWERS.

CITY OF SOMERVILLE.

IN BOARD OF ALDERMEN, February 1, 1893.

Referred to the committee on printing, to be printed in the annual reports.
Sent down for concurrence.

GEORGE I. VINCENT, *Clerk.*

Concurred in.

IN COMMON COUNCIL, February 1, 1893.

CHARLES S. ROBERTSON, *Clerk.*

CITY OF SOMERVILLE.

IN COMMITTEE ON SEWERS, January 2, 1893.

To the Board of Aldermen of Somerville:—

The committee on sewers presents the following final report for the year 1892:—

CREDIT.

Appropriation	\$18,000 00
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Receipts and credits:—

For catch-basin curbs in sidewalks, received credit from sidewalks account	\$94 33	
fee for drainage of Asylum build- ings into Fitchburg-street sewer,	50 00	
fee for draining estates into Elm- street sewer, White-street place sewer, Line-street sewer, and Elmwood-street sewer . . .	238 33	
labor (paving Somerville avenue, etc., account)	10 44	
labor and materials furnished in 1890 the bills for which remained uncollected January 1, 1892 .	14 82	
		407 92
pay for laborers not called for		30 00
unpaid bills of 1892		2,213 88
Value of materials on hand January 1, 1892 . . .		256 04
Value of tools and property January 1, 1892 . . .		589 25
Total credit		\$21,497 09

DEBIT.

Expenditures:—

For twenty-two sewers, as per accompanying table	\$12,208 32	
less assessments	9,168 55	
	<hr/>	\$3,039 77
labor on Granite-street sewer (not finished December 31) . . .	\$73 26	
labor on Pauline-street and Broadway sewer (not finished December 31)	3,855 81	
labor on McGregor-place sewer . . .	4 38	
labor on Broadway sewer, Wallace street, easterly, to College avenue (not finished December 31, 1892)	680 45	
	<hr/>	4,613 90
rebuilding Glen-street sewer		556 69
rebuilding Harvard-street sewer		404 25
twenty-six catch-basins (average cost, \$65.06)		1,691 58
rebuilding two catch-basins		154 88
labor on catch-basin, Delaware street (not built), five-ninths cost of removing deposit from mouth of Bridge-street sewer		26 12
abatement of sewer assessments		1,217 47
repairing sewers and drains		497 27
flushing sewers and filling catch-basins		149 51
cleaning sewers		451 78
examining sewers		627 72
digging to locate sewers		75 81
inspecting house drains		68 63
soundings for ledge		249 40
repairs of catch-basins		49 71
changing line and grade of catch-basins		25 41
cleaning catch-basins		554 56
opening mouths of catch-basins		1,831 86
changing line and grade of manholes		144 19
		324 31
		<hr/>
<i>Amount carried forward</i>		\$16,754 82

<i>Amount brought forward</i>	\$16,754 82 ¹ / ₂
building manhole, Glen street	34 66 ¹ / ₂
building manhole, Union square	43 95 ¹ / ₂
repairing manholes	39 82 ¹ / ₂
cleaning manholes	143 70 ¹ / ₂
locating water-services	16 62 ¹ / ₂
laying outlet for drinking-fountain, Broadway at Medford street	31 73 ¹ / ₂
teaming stone	2 62 ¹ / ₂
changing grade of bulk-head	4 90
puddling sewer-trenches	10 70
books, stationery, and printing	72 75
arranging tools and property	18 11
repairs of tools and property	60 47
unpaid bills of 1891	39 15
sundry small expenses	69 47
depreciation in value of tools, property, and materials	221 32
Value of materials on hand December 31, 1892	168 60
Value of tools and property on hand December 31, 1892 (including purchases during the year, \$82.47)	657 45
Total debit	<u>\$18,390 84</u>
Balance unexpended	<u>\$3,106 25</u>

Labor and materials have also been furnished, and credit has been received for the same, as follows:—

Broadway Parkway account, catch-basin at parkway,	\$58 53
Public property account, catch-basin at Pope School,	61 57
Public property account, pointing wall at Pope School,	19 66
Public grounds account, catch-basin, School street,	53 27
Public grounds account, pointing wall at battery	5 65
Total	<u>\$198 68</u>

Appended hereto is a table of sewers built during the year.

The sewer in Olive avenue, which was constructed by an order dated December 23, 1891, and referred to this committee as un-

finished business of the year 1891, was finished early in January by Willard B. Bryne, at a cost of \$93.55.

Under an order dated June 22, a contract was made with Charles Linnehan for the construction of a sewer in Granite street, from Somerville avenue to Osgood street. The sewer is not as yet completed, owing partly to the large amount of ledge in the street. Only \$73.26 has been paid on said sewer this year.

By an order dated July 27, a contract was made with Collins & Crimmings for the construction of a common sewer in Paulina street and Broadway, from Holland street to Broadway, and in Broadway, from Paulina street to Wallace street. This sewer is unfinished, but work will be resumed early in the spring. Three thousand eight hundred and thirty-six dollars and forty-six cents has been paid on this sewer.

Under the same order, a contract was made with Willard B. Bryne for the construction of a sewer in Broadway, from Wallace street to College avenue. Six hundred and eighty dollars and forty-five cents has been expended during the year. This sewer will be finished during the coming season.

Work on these sewers was abandoned late in the fall, owing to the weather. They are trunk sewers, constructed for the reception of smaller sewers, draining the locality in the vicinity of Elm street, College avenue, and Billingham street.

The sewer in Harvard street, from Beach street to Elm place, was rebuilt at a lower grade in order to furnish drainage for estates in Elm place. The city was obliged to bear the entire expense, as the cost of the sewer when first constructed was assessed. The cost of rebuilding the sewer was \$404.25.

The sewer in Glen street and private lands was rebuilt through private lands, southwesterly 100 feet, and in Glen street northeasterly 164 feet, at a cost to the city of \$556.69, the old sewer built in 1871 having been found defective.

For the committee,

CHARLES B. OSGOOD, *Chairman.*

WILLIAM P. MITCHELL, *Clerk.*

REPORT OF THE COMMITTEE ON SEWERS.

SEWERS BUILT IN 1892.

STREET.	FROM.	TO.	Length in Feet.	Total Cost.	Assessment.	Cost to City.
Atherton St. and	End of sewer built 1891	Beech St.	61.6	\$76 73	\$76 73	\$ 00
Beech St.	Atherton St.	Westerly	}	533 99	533 48	51
Browning Road	Sycamore St.	Northwesterly		231 23	229 60	1 63
Caldwell Pl.	Washington St.	Southerly	214.0	164 97	164 92	05
Cambria St.	End of sewer built 1885	Westerly	147.7	170 92	170 60	32
Elm Pl.	Harvard St.	Easterly	167.3	475 58	472 66	2 92
Glman Terrace	Pearl St.	Northeasterly	363.0	217 44	215 63	1 81
Harrison St.	Kent St.	Easterly	339.6	2,397 28	1,525 00	872 28
Heath St.	Temple St.	Bond St.	1,102.7	482 20	475 74	6 46
Josephine Ave.	Morrison Ave.	Northeasterly	394.4	285 04	285 00	04
Melvin St.	Broadway	Southwesterly	333.5	93 55	93 44	11
Olive Ave.	Linden Ave.	Easterly	141.5	81 81	81 77	04
Private Way { Land of H. R. Glover	Dover St.	Westerly	139.1	202 18	201 67	51
Private Way { Land of Orr N. Towne	Pinckney St.	Easterly	130.5	109 12	109 12	00
Private Way { Suther Blaikie	Somerville Ave.	Northwesterly	118.7	223 59	223 53	06
Skehan St.	Hanson St.	Westerly	335.3	929 64	640 88	288 76
Somerville Ave.	Mossland St.	Northwesterly	481.8	921 81	919 30	2 51
Summer St.	End of sewer built 1887	Southeasterly	706.9	69 01	68 47	54
Vinal Ave.	End of sewer built 1887	Northeasterly	100.0	461.3	680 94	84
Walter St. and	Bradley St.	Walnut St.	}	210.4	239 06	115 92
Walter Pl.	Walter St.	Southwesterly		293.9	3,452 94	1,730 74
White-st. Pl.	White St.	Southeasterly	925.9	169 29	162 79	6 50
Willow Ave.	Elm St.	Hawthorne St.	248.4			
Winslow Ave.	Grove St.	Southeasterly				
			7,960.0	\$12,208 32	\$9,168 55	\$3,039 77

REPORT
OF THE
CITY ENGINEER.

CITY OF SOMERVILLE.

IN BOARD OF ALDERMEN, April 12, 1893.

Referred to the committee on printing, to be printed in the annual reports.
Sent down for concurrence.

GEORGE I. VINCENT, *Clerk.*

Concurred in.

IN COMMON COUNCIL, April 12, 1893.

CHARLES S. ROBERTSON, *Clerk.*

CITY OF SOMERVILLE.

OFFICE OF CITY ENGINEER, SOMERVILLE, March 15, 1893.

To His Honor the Mayor and the City Council:—

In compliance with City Ordinance, Chapter 9, Section 9, the following report of the city engineer for the year ending December 31, 1892, is respectfully submitted:—

ENGINEERING DEPARTMENT.

The number of persons permanently employed during the year 1892 has been eight. The expenses of the department have been as follows:—

Salary of city engineer	.	.	.	.	.	.	\$2,400 00
Salary of assistants	.	.	.	.	.	.	4,392 88
Instruments and supplies	.	.	.	.	.	.	168 42
Car fares	.	.	.	.	.	.	66 16
							<hr/>
							\$7,027 46

The items of expenditure for salaries of assistants are as follows:—

Giving lines and grades for edgestones and brick sidewalks, examining titles of abutters, and computing assessments of cost	.	.	.	.	.	.	\$593 22
Giving lines and grades for defining street lines, for grading and macadamizing streets, revising acceptance plans, and examining titles of abutters	.	.	.	.	.	.	459 94
							<hr/>
<i>Amount carried forward</i>	.	.	.	.	.	.	\$1,053 16

<i>Amount brought forward</i>	\$1,053 16
Making surveys and giving lines and grades for public sewers, examining titles of abutters, computing assessments and making assessment plans, locating and recording private drains, giving lines and grades for building catch-basins, and rebuilding old sewers	1,084 63
Giving lines and grades for laying water pipe, making surveys and plans, locating and recording locations of mains and house services, and plans for a wooden building to be located at the high-service pumping station	221 58
City survey	183 59
Grades and lines for department of public grounds	53 56
Surveys, grades, lines, and estimates, Nathan Tufts Park	388 10
Making plans for numbering streets and affixing numbers to houses	189 21
Indexing note-books and plans and keeping office records	26 60
Copying plans, Middlesex Registry of Deeds, and work done for the assessors' department	38 35
New city map	101 26
Surveys, grades, and lines connected with changes in street railway track locations	34 87
Surveys, grades, and lines for laying out and construction of Broadway Parkway	93 52
Surveys, plans, grades, lines, and estimates for paving Somerville avenue, from Medford street to Park street, Union square, and Webster avenue, from Union square to the Fitchburg railroad	623 86
Miscellaneous, including five sets of maps made for fire department, showing location of hydrants by wards, plans and sketches for police and law departments, to be used in accident and criminal cases, grades and lines for curbstone on street lines at certain schoolhouses	300 59
	<hr/>
	\$4,392 88

CITY SURVEY.

No progress has been made on the city survey. Until this survey is completed, it will be impossible to make accurate valuation plans for the assessors' department, and sectional plans of the city. These plans, when completed, will be used in adjusting street and estate lines; in making sewer and sidewalk plans and assessments; for recording the location of street intersections and street lines; for indicating the position of sewers, gas and water mains, manholes, catch-basins, monuments, trees, edgestones, etc.; in preparing drainage plans for those portions of the city in which sewers have not been constructed; and in opening and locating new streets.

As a basis on which such a survey may be made, and to correct and adjust surveys and traverses already made, it is necessary that the relative positions of many points should be determined. From these points the exact distance to any other point, as well as the length of the lines joining these points, could be accurately determined. In this way errors which are now apparent in local surveys would be eliminated, and an exact and accurate plan of the whole or any part of the city, of any street, alley, or house lot could be made with the least amount of work and with absolute accuracy.

The method by which the relative position of the several points or stations is determined is called triangulation.

The value of accurate plots of blocks for the assessors' use must be comprehended and admitted by every one who has had any experience with municipal affairs. The value of such plans when made and their usefulness ought to be comprehended when it is stated that assessed areas have been computed from plans made thirty to forty years ago, when the area included within the city lines was almost like pasture land, and the property lines defined by these plans have been in many cases long since destroyed. It is often impossible to locate new transfers from the description given in deeds, especially where small parcels of land are sold from large tracts of unoccupied land, of which there is no survey or plan in existence. On many streets where the lines are not established large areas of unoccupied lands are now about to be divided into house lots, and the street lines can better be established now, before the land is occupied, than at a later period. Areas have been carried by deed from one person to another, and errors in copying or possi-

ble intentional changes have produced discrepancies which may never appear until some such survey is made.

This is an experience which has come to a great many cities and towns in this vicinity, and it has invariably been stated, whenever I have inquired, that the increased valuation obtained from the errors discovered in areas of land has more than paid for the cost of the surveys.

That the importance of undertaking this work immediately may be impressed on the minds of the City Council, I will copy from the report of the year 1891 the following:—

“Only about one-third of the area of the city has been completely surveyed, and in that portion of the city northwest of Cedar street nothing has been done, except the establishment of street lines on Somerville avenue and Elm street, Summer street, Highland avenue, and Broadway. Sectional maps have been in existence for several years, but have not been completed, and no progress has been made on them for several years. Many sectional surveys and traverses have been made, but have never been connected, and errors prevent the combination of these surveys. The only reason which can be given for the lack of progress is that the office force has not been sufficiently large to undertake any work outside of the routine work on streets and sewers.”

As will be seen in the items of expenditure on page 362, only a small amount (\$183.59) has been expended for work which pertained to the city survey.

Surveys required to complete sewer assessments and record plans, to locate houses for street numbers, and for records of house sewers and water service location, comprise all the work done which could properly pertain to the city survey.

The probability that such a survey would inevitably be made at an early date has been remembered, and what has been done during the year 1892 will be of service when it is completed.

When the work on the survey outlined above is commenced, it should be done under a special order of the City Council, and by an engineering party outside of the force regularly employed. Precise and accurate work can only be done by a party that will give its entire time to the work.

From a study of the reports on file in the office, I have ascer-

tained that, in 1883, the sum of three hundred dollars was appropriated to defray the cost of a special city survey. I have found no record of any appropriation since that date, and it is indeed a small sum for nine years' work. I would, therefore, recommend that a special appropriation of \$500 be made to commence this work.

STREET MONUMENTS.

That monuments should be placed at street intersections, and at such other points as may be necessary to properly mark deflections or changes in the alignment of the street lines, is of the greatest importance, and is, perhaps, of as much value to a city or town as any work which a city engineer may be called upon to perform. On the exactness of the location of street lines rests the correct location of property lines and the imaginary lines which separate a man's property from that of his neighbors.

Plans on which the exact location of street lines are shown, and note-books showing buildings, fences, offsets, etc., be they ever so carefully and neatly drawn, are not of the least importance if there are not some objects on the ground to which such measurements can be referred. It is well known that plans and note-books are very seldom deposited in fire-proof vaults, and if plans or note-books are destroyed, how will it be possible to locate street lines unless measurements are placed to mark street intersections and angles? Then, too, a careless assistant may mislay a note-book, and thus destroy, perhaps, evidences of the location of the lines of twenty or thirty streets. The practice, now so common, of removing street fences and fences on division lines must make the re-location of street and property lines all the more difficult, unless the street intersections are marked by some method indestructible by fire, frost, water, or the unaccountable mischief of persons, who often remove evidences of lines, as stakes, posts, rods, trees, walls, etc.

From an investigation of reports and records in this office, I find that about 117 monuments now exist which were set in 1860, 100 were set in 1877, and thirty-five in 1884. That is, only 252 monuments have been set and are now in use in Somerville in thirty-three years, and that with about fifty miles of public streets.

Lest it might seem that the present engineer has been negligent, I would say that requests have been made repeatedly to the commit-

tee on highways for an appropriation for this purpose, but no appropriation has yet been made. I am of the opinion that it would be expedient to pass an ordinance requiring the city engineer to place annually as many monuments as may be necessary to properly define street lines, and that the committee on finance include annually in its appropriation bill a sum sufficient to pay the cost of this work.

The practice of removing street and division fences, already alluded to under "city survey," will tend to cause serious complications in titles to real estate, unless some immovable method of locating street lines shall be adopted, and all fences be referred to these immovable landmarks.

I would, therefore, recommend that the sum of \$500 be appropriated for placing stone monuments at such locations as the city engineer may deem necessary.

OFFICE ACCOMMODATION.

It has long been evident that the facilities for properly arranging plans, note-books, etc., in the department are entirely inadequate to its needs.

The office is small and poorly arranged for the number of men employed, and it is even necessary to locate some of the office help in another part of the City Hall, beyond the control of the engineer. The present arrangement for filing plans is so small, and the books and plans are so crowded, that it is only with extreme care that plans can be used without injury. The safe for plans and note-books is small, and its construction is such that if the building were destroyed by fire, the contents, if not entirely destroyed, would be of very little value. The loss of note-books and plans would be a severe one, and it would be impossible to replace them at any cost. The records of location and depths of sewer and water mains, the plans of highway locations, the surveys of streets, lands, and buildings, levels and grades for highways, and land plans of which no other copies can now be obtained, all would be destroyed. The cost of constructing a new vault would seem to be exceedingly small when compared with the value of the records and plans now contained in the present vault. The cost of a new vault, when compared with the cost of duplicating these valuable records, ought not to be considered for a moment.

I would, therefore, recommend that this question receive your early consideration, and that immediate steps be taken to provide safe and suitable accommodations for the department and its records.

CITY MAP.

The only existing map of the city now in this office was made in 1883. So many changes in street lines have been made, and new streets have been laid out, that this map is of very little value.

In 1891 some work preliminary to making a new map was undertaken, and, at that time, traverses were compiled and a skeleton traverse made through the following streets: Broadway, Holland and Elm streets, Union square, Washington and Mount Vernon streets. Another traverse by way of Washington street, Union square, Somerville avenue, Beacon, Cambridge, and Medford streets, Fitchburg and Boston & Lowell railroad locations is now being computed. A third traverse by way of Broadway, City line, Mystic avenue, and Union street will be made. These three traverses will be referred to that part of the northerly line of Highland avenue between Cedar street and Davis square, and the co-ordinates of every point of these traverses will be computed and recorded. From these computations a map of the city can be drawn which will be accurate within the limits of a scale of $\frac{1}{2400}$. The portion of the map included within the lines of the traverse first above mentioned has been plotted, and comprises the larger part of the city.

PAVING UNION SQUARE AND PORTIONS OF SOMERVILLE AND WEBSTER AVENUES.

April 13, 1892, the committee on highways was authorized to solicit proposals for paving these streets, and an appropriation of \$100,000 was made for doing the work. July 14, 1892, a contract was signed with the Rockport Granite Company for furnishing granite paving blocks. July 29th a contract was signed with Horatio Gore & Co. for paving Section 1. July 30th a contract was signed with William H. Gore & Co. for paving Section 2.

The area between the edgestones and outside rails of the street railway tracks and the area between the tracks was paved by the city. The area between the rails of both tracks was

paved by the street railway company; each party in interest furnished and laid the paving in the areas, as above described.

The blocks used in the work done by the city were the best quality of Rockport granite, and were cut to the following dimensions: width, 3½ to 4½ inches; length, 8 to 12 inches, and to average not less than 10 inches; depth, 7 to 8 inches. Under the terms of the contract the blocks were delivered subject to inspection on the wharf. The contract price was \$72 per thousand delivered on the wharf. Seven hundred and seventy-nine thousand three hundred and eighty-two blocks were used.

The average cut due to the change in grade from the macadam to the paved surface was five inches, and the average depth of excavation for the gravel foundation was eleven inches, making a total average excavation of sixteen inches.

The pavement was laid on a gravel foundation four inches in thickness, with sufficient bedding sand to bring the granite blocks to the proper grade. The joints were filled with fine gravel, rammed, and the paving was covered with screened gravel one inch in thickness. Edgestones were reset and pointed on joints and face, and the brick sidewalks repaved where required.

Cross-walks were laid with granite flagging twenty-four inches wide, not less than three feet in length, and not less than seven inches in thickness; rough pointed on top, and jointed on ends and sides. The flagging was delivered on the work by the city at a cost to the city of \$0.36 per square foot.

The granite blocks were hauled from the wharf by the contractor for paving and regulating, and at his expense. By the terms of the contract the contractor was required to maintain the pavement for the period of six months from the date of the final completion of his contract, not including the months of December, January, February, and March.

The items of cost of work done in paving Sections 1 and 2 combined are as follows:—

779,382 granite blocks, including wharfage, culling, piling, printing contracts and specifications, tools, lumber, and sundries	\$58,477 41
<i>Amount carried forward</i>	<u>\$58,477 41</u>

<i>Amount brought forward</i>		\$58,477 41
11,012.9 lin. ft. edgestone reset		2,826 54
350.25 lin. ft. edgestones furnished and delivered	\$0 45	185 78
7,454.34 sq. ft. granite flagging delivered,	\$0 36	2,683 56
3,451.00 sq. ft. North River flagging delivered	\$0 57½	992 16
52,683 bricks delivered		698 92
28,838.63 sq. yds. granite block paving		29,399 99
5,072.03 sq. yds. sidewalk relaid		2,332 08
1,132.40 sq. yds. crossings laid		1,261 71
Eighty-six days inspecting of materials and work		430 00
Labor at dump, Lowell street, city lot, piling cobble stones from old gutters and spreading surplus material from excavation		77 36
Labor and materials, changing grade of sidewalk, bulkheads, and reservoir covers, Union square		10 44
Changing location of two electric light poles		9 80
Extra work and materials		101 41
Printing contracts and specifications, paving and regulating		74 30
Advertising proposals, paving, and regulating		68 60
Car fares		8 97
		<hr/>
		\$99,639 03
Less cost of edgestone and labor for sidewalk, Webster avenue, east side, Everett street to the railroad (charged to sidewalk account)	\$202 19	
Labor lowering edgestone for driveway	66	
	<hr/>	202 85
		<hr/>
Net cost of the work done		\$99,436 18
The cost of changing grades of reservoir, catch-basins, and manholes was	\$449 20	
	<hr/>	
<i>Amounts carried forward</i>	\$449 20	\$99,436 18

<i>Amounts brought forward</i>	\$449 20	\$99,436 18
The cost of building eight new catch-basins	536 74	
	<hr/>	985 94
(This work was charged to the sewer department, although it was occasioned directly by the paving of Somerville and Webster avenues.)		<hr/>
Total cost of paving		\$100,422 12

Six new catch-basins were built on Somerville avenue, and two on Webster avenue. These new basins were required because the edgestones were set practically level, and the proper fall in the gutter could only be obtained by using summits in the gutters to discharge the surface water into the basins. Forty-one catch-basins and thirteen manholes were adjusted to the new lines and grades. The cost of these new basins and changes was \$945.52, and was charged to the appropriation for sewers.

The superfluous material excavated from the roadway was removed from the street by contractors; such portion of this material as was required by the city was removed by the contractor at his expense and delivered at certain points determined by the city engineer. This material was used in grading certain streets and filling adjacent low lands, in most cases to abate nuisances, and was of great value to the city. It is certain that in many of the streets graded no work of this kind could have ever been done, had not the material for filling been obtained in this way.

Seven thousand four hundred and eighty cubic yards of material were excavated from the roadway; 14,440 linear feet of street were filled; 46,000 square yards of surface were covered.

In Appendix F will be found a canvass of bids for paving and regulating Union square, Somerville and Webster avenues.

WORK DONE AT MIDDLESEX REGISTRY OF DEEDS, EAST CAMBRIDGE.

Tracings have been made of all plans of real estate filed at the registry of deeds during the past year, and a copy of the plan index has been made, giving the name of the street, owner's and surveyor's names, date and record number of every plan on record.

SEWER DEPARTMENT.

ITEMS OF EXPENDITURES.

Assessments for twenty-one sewers	\$7,446 35	
Amount assumed by the city	1,309 03	
	<hr/>	
Total cost of construction		\$8,755 38
Sewers partially completed December 31, and not assessed in 1892 :—		
Granite street		73 26
Sewers in West Somerville, that portion of the cost of these sewers assumed by the city to be paid from money borrowed on funded debt account :—		
Willow avenue, from Elm street to Hawthorne street, assessment	\$1,722 20	
Assumed by the city	1,730 74	
	<hr/>	
		\$3,452 94
Sewers uncompleted December 31 and not assessed, to be paid from funded account :—		
Sewer in Paulina street and Broadway	\$3,836 46	
Sewer in Broadway, Wallace street, easterly	680 45	
	<hr/>	
		4,516 91
	<hr/>	
Total cost of West Somerville sewers to December 31		7,969 85
Cost of rebuilding sewer in Glen street and private lands (see Appendix A),	\$556 69	
	<hr/>	
Amounts carried forward	\$556 69	\$16,798 49

<i>Amounts brought forward</i>	\$556 69	\$16,798 49
Building manhole, Glen street and private lands sewer	34 66	
Cost of rebuilding Harvard-street sewer (see Appendix A)	404 25	
<hr/>		
Total cost of sewers rebuilt		995 60
Cost of twenty-six catch-basins	\$1,091 58	
Cost of rebuilding two catch-basins	154 88	
<hr/>		
Total cost of catch-basins built and rebuilt		1,846 46
Cost of rebuilding manhole in Union square on Bow-street sewer, on account of change in location of horse railway tracks		43 95
Cost of laying outlet of drinking fountain at Magoun square		31 73
Inspection, private drains		253 78
Maintenance (see report of committee on sewers)		6,468 02
Net decrease in value of materials, tools, and property		200 88
Sundry expenses		73 99
<hr/>		
Net expenditures for 1892		\$26,712 90
Labor and materials furnished other city departments for which credit has been received		198 68
<hr/>		
Total cost of work done in 1892		\$26,911 58

Seven thousand nine hundred and sixty feet, or one and five-tenths miles, of public sewers were built during the year 1892.

The sewers in Glen street and in private lands, from Glen street to near Cutter street, and in Harvard street, from Beach street to near Elm place, were rebuilt at a cost of \$995.60.

WILLOW-AVENUE SEWERS.

In the year 1885 a (brick) sewer, twenty-four inches by seventeen inches, was laid in Highland avenue, from Cherry street to Willow avenue, and in Willow avenue a sewer, thirty inches by twenty inches

diameter, was laid from Highland avenue to Hawthorne street. At Hawthorne street it discharged by a temporary connection, twelve inches in diameter, into the twelve-inch sewer in Hawthorne street. In the year 1879 a brick sewer, thirty inches in diameter, was laid in Highland avenue east of Cedar street, and in 1889 it was extended to near Central street; this sewer discharged at that time by a twelve-inch connection into the sewer in Cedar street, southerly.

Although but little storm water was taken into this sewer, yet a considerable deposit was made in the Cedar-street sewer, so much so that a twelve-inch pipe was laid, connecting the two sections of the brick sewer in Highland avenue from Cedar street easterly and Cherry street westerly, and through this twelve-inch connection the storm water was discharged by way of Willow avenue and the twelve-inch connection at Hawthorne street. This new line of disposal only removed the trouble formerly existing at Cedar street to Hawthorne street.

To finally dispose of this question of storm water discharge, the Willow-avenue sewer was extended from Hawthorne street to Elm street. This sewer further provides for an outlet for sewers to be laid in Summer street, Charnwood and Gordonia roads, and in streets to be laid through a portion of the Ayer and Tufts estates. The twelve-inch pipe sewer in Highland avenue, between Cedar street and Cherry street, is not to be considered as being permanently a part of the main sewers above referred to, and must only be used as an outlet for Highland avenue from Cedar street easterly until such time as a main sewer may be constructed in the Lowell railroad location, when the Highland-avenue sewer must be deflected northerly through Cedar street to the railroad.

REBUILDING SEWER IN GLEN STREET AND PRIVATE LANDS.

This sewer is twenty-four inches in diameter, and was built of brick, under a contract with I. C. Cushing, in 1871. For several years it has been in an unsatisfactory condition, and has been repaired several times. During the early summer many complaints were made by people in the vicinity that the sewage came through the sewer and flooded adjacent lands.

The complaints became so frequent that examinations were made, from which it appeared that the sewer had settled considerably, that

portions of the arch had fallen in, and for a considerable distance the depth of covering on the arch was less than twelve inches. Rod soundings were taken to determine the character of the material underlying the sewer and the cause of the settlement. From these soundings it appeared that the sewer was laid on mud varying in thickness from eight to twenty feet, and, so far as ascertained by preliminary work, no effort had been made to support the sewer laterally. Work of rebuilding was begun in October, and after the old sewer had been removed, it was found that a cradle had been laid under the invert, but that no support had been given to the haunches, and the trench had been back-filled with mud. Levels taken on the invert indicated that it had settled, or possibly had been laid from two inches to twenty-four inches below the probable grade line. It was thought best not to disturb the invert and cradle, but to lay a course of two-inch planking outside the cradle of sufficient width on which to build the brick walls, or backing, to provide lateral support for the invert. On this platform these side walls were carried up with the invert to a height sufficient to support the arch. A new water line was established, and the new work was laid solid on the old invert up to the new water line. The arch was then turned, as is usually done. At the place where the settlement was twenty-four inches the deposit in the sewer had accumulated within two inches of the top of the sewer, and it is probable that the sewer was so reduced in size that the pressure from the water, when the sewer was running full in time of rain, and the lack of sufficient covering on the arch to protect it from frost, were assisting causes in the destruction of the sewer. A manhole was built at the intersection of the private lands sewer with the sewer in Glen street.

This sewer has been examined during the winter, and appears to be in a satisfactory condition. The cost of rebuilding was assumed by the city.

REBUILDING SEWER IN HARVARD STREET.

The sewer in Harvard street, from Beach street to Elm place, was rebuilt at a lower grade to provide sewerage for the estates on Elm place. The grade was lowered about six and one-half feet at Elm place, and at this point a drop manhole was built to connect the new and old grades. The cost of rebuilding was assumed by the city.

The length of public sewers built by the city to January 1, 1893, is forty-eight and eighty-six one-hundredths (48.86) miles.

The total cost of the system to date, not including sewers uncompleted December 31, 1892, has been \$815,208.

Plans have been made showing the location and profile of sewers built during the year, the location of inlets and manholes, the owners' names, the areas and frontages assessed, and the amount of assessment on each estate as levied by the Board of Aldermen.

Taking of land plans for sewers in White-street place and Josephine avenue, from Morrison avenue to Frederick avenue, have been made and filed.

Thirty-three preliminary profiles for sewers have also been made during the year.

PRIVATE DRAINS.

Five hundred and seventy-two permits for laying house drains and thirty-six for repairs were issued in 1892. All new drains have been located with reference to the location of the house and sewer and will be properly entered in the note-books and recorded on the assessment plans. The cost of inspection has been \$253.78.

The inspection of house drains, so far as this work has been attended to during the past year, has been accomplished by one man who has also been required to act as inspector on sewer construction; and although this work has been as faithfully attended to as was possible within the time which the inspector was able to give to it, yet the results were not satisfactory. Especially was this true in the method of back-filling trenches, and of the condition in which the surface of the street was left after the trench was filled. Further, the inspector of house-drains will hereafter give his whole time to this work, and the drain-layers must be required to lay the entire drain from sewer to house before back-filling the trench, and keep the same open until the whole line of pipe has been inspected.

CATCH-BASINS.

Twenty-six catch-basins were built, at a total cost of \$1,091.58. Two have been rebuilt, at a cost of \$154.88.

The number of catch-basins in use December 31, 1892, was 711.

Three catch-basins have been repaired, at a cost of \$25.41; an average cost of \$8.47 per catch-basin.

The cost of changing the grade and line of sixty-five catch-basins was \$554.56, an average cost of \$8.53 per catch-basin.

Eleven hundred and forty-nine catch-basins were cleaned, and 2,207 loads, or 2,585 cubic yards, of material were removed from the basins and carried to a dump, at a total cost of \$1,831.86; an average cost per basin of \$1.59; per load, of \$0.82; per cubic yard, of \$0.71.

The cost of removing ice, snow, gravel, and other materials from catch-basin openings has been \$144.19.

CLEANING AND REPAIRING SEWERS AND MANHOLES.

Twenty-three miles of pipe sewers have been flushed, at a cost of \$451.78, and an average cost per mile of \$15.29, or \$3.72 per thousand feet. The method of flushing is as follows: A ball to which is attached a rope of sufficient length to reach between manholes is inserted in the sewer at a manhole. After closing the sewer at the manhole, water from a hydrant is allowed to accumulate in the manhole; the sewer is then opened, and the water rushing under the ball forces the deposit in the sewer to the next manhole, where the deposit is removed, and the flushing continued.

Two, and nine-tenths (2.9) miles of brick sewers have been cleaned, at a cost of \$627.72; an average cost of \$216.45 per mile, or \$41.16 per thousand feet. The methods of cleaning are drawing an iron bucket between manholes by horse-power on sewers less than three feet in diameter, employing two men, horse and driver; on larger sewers, by shovelling the deposit into boats floated or drawn through the sewer between manholes, and hoisting the materials in buckets by hand derrick to the surface. The number of men employed has been five, with one single cart and driver.

The cost of cleaning outfall ditches at Winthrop avenue, Austin, North Union, and Waverly streets was \$180.95.

The cost of cleaning sewers and catch-basins might be considerably reduced if more attention were paid to removing deposits in gutters, at the foot of steep grades, and near catch-basins. As this work properly belongs to the highway department, it would be proper for that department to provide for it. It is more economical to

remove this material from the gutters than from the catch-basins and sewers. The cost of repairing streets will be much less if the gutters are cleaned and the water confined to the gutters.

The cost of changing the grade and line of forty-one manholes was \$324.31; an average cost of \$7.91 per manhole.

The cost of repairing two manholes was \$39.82.

The cost of cleaning manhole dirt-catchers was \$144.42.

BRIDGE-STREET OUTLET.

The cost of dredging done was \$2,191.45.

The items of cost are as follows:—

3,523 cubic yards material dredged	
at \$0.55	\$1,937 65
Labor, advertising, teaming, water, oil	
clothing	253 80
	<hr/>
	\$2,191 45

Of this amount, five-ninths, or \$1,217.47, was paid by the city of Somerville, the balance by the city of Cambridge.

INTERCEPTING SEWER IN THE LOCATION OF THE BOSTON AND LOWELL RAILROAD.

The attention of the City Council has been called to the necessity for the construction of this sewer in the several annual reports of the city engineer since 1888.

Every year the necessity for making some provision for the districts which might be drained into a sewer constructed in the Lowell railroad locations becomes more apparent. Perhaps all that may be written in addition to what has been previously printed in the reports of previous years is that the damage done by the overflow of storm water from the existing sewers is more extended, and the demands for sewers in new locations become more urgent each year. The sewerage of the Powder House farm and the Ayer estate; the sewers needed in Broadway, from Magoun square to Liberty avenue, in Cedar street, from Broadway to the Boston & Lowell railroad, which cannot be constructed because there is no outlet for them; the dis-

posal of storm water from the southerly slope of Winter Hill, between Cedar street and School street, as well as the northerly slope of Spring Hill, from Cedar street to Central street, including the district known as "Polly Swamp," and the flooding of cellars in the vicinity of School and Medford streets, Medford and Marshall streets, and in East Somerville east of Cross street, are problems which demand immediate investigation, and which depend for their solution on the construction of an intercepting sewer on the Lowell railroad location.

So long as the solution of the problem for the disposal of storm water is postponed, just so much more will the damage to property and inconvenience to the public be increased. Particularly is this true in the district bounded by Broadway, Hinckley, Lowell, Vernon, Central, and Medford streets.

The sewers already constructed were designed to dispose of house drainage only. No provision for storm-water sewers was made at the time these sewers were constructed. The storm water must find its own channels by way of street gutters to vacant land, not only to the damage of street surfaces, but also to the injury of private lands and dwelling-houses.

The present methods must continue until storm-water sewers are constructed in these streets, and connected with the proposed intercepting sewer.

The flooding of cellars at the intersection of School and Medford streets, and at Medford and Marshall streets, is caused by the back water from the Medford-street sewer. This sewer drains the area bounded by Marshall street, Broadway, Adams and Medford streets, and is but twenty-eight inches in diameter; while to properly dispose of the storm water from this area a sewer double the capacity should be built, a fact which is of itself a sufficient cause for the damage done, and can only be remedied by the disposal of the excess of storm water by some other means.

The flooding of cellars in East Somerville is likewise due to back water from sewers of insufficient capacity.

The sewer in Cross street intercepts the sewage from the area bounded by Mount Vernon, Broadway, Adams, Medford, and Central streets, Highland avenue, Medford, Cross, and Pearl streets, an area of about 300 acres, except a small area drained by the sewer in Marshall street. As this sewer is but thirty-six inches in diameter, it is

probably discharged under a head of three or four feet, which is sufficient to raise the sewage above the bottom of the cellars. It is readily seen that the sewage, when at an elevation in the sewer above the cellar floor, will back up through the house drains into the cellars.

To remedy this trouble it will be necessary to consider what the probable location of the proposed main sewer above referred to will be and how it can be located to relieve the sewers in East Somerville. It does not appear that this proposed sewer is needed in the railroad location east of Walnut street; and at this point it is only necessary to consider the probable location of an outlet. Further, as it is preferable that the outlet should be within the city limits, it is probable an outlet would be located on the Mystic river at, or near, the present outlet of the culvert under Middlesex avenue, where the Winthrop-avenue sewer outfall ditch now discharges.

In locating this sewer a route might be selected by way of Gilman, Aldrich, Flint, and Rush streets, Broadway, and New Cross street to Mystic and Middlesex avenues. The Pearl and Cross streets sewers could be connected at Rush and Pearl streets, and the Glenstreet and private lands sewer could be intercepted at Rush and Brooks streets.

At these connections storm overflows could be constructed, which would relieve the old sewers. This plan would probably remove the cause of all existing troubles in the locations above referred to.

I would recommend that the committee on sewers be given full powers to investigate and report to the City Council plans and estimate of cost of the construction of this intercepting sewer.

EXTENSION OF THE WINTHROP-AVENUE SEWER.

The necessity for the extension of this sewer to the Mystic river has been alluded to in the annual reports of the city engineer since the year 1888. When it is known that this sewer, which is five feet in diameter, intercepts the sewage from an area of about ninety acres, containing a population of about twenty thousand; and, further, that it discharges through an open ditch eight hundred feet long into tide water; that for at least eight hours out of twenty-four there is absolutely no discharge from this sewer, and for four hours more

there is very little discharge, because the tide gates at the end of the outfall ditch are closed by the high tide,—it must be evident that there can be no other result than that a very offensive odor will be given off by the sewage while it is retained in the ditch by the tide and by the solid matter which is deposited on the bottom and sides of the ditch, and is exposed to the sun during the hours of low water in the ditch. Your attention is particularly called to the report for the year 1888, in which additional reasons for the extension of this sewer are given. The recommendations of the previous four years are continued and repeated, and your attention is hereby called to the necessity of making some provision for carrying out these recommendations.

ELM-STREET SEWER.

In the report of the city engineer for the year 1891 it was recommended that a storm overflow be constructed at Cedar street from the Elm-street high level sewer into the Beacon and Elm streets sewer. This work was not done last year, because the appropriation for sewers was not large enough to provide for it. It is hoped that some means will be provided this year.

EXTENSION OF SEWERAGE SYSTEM IN WEST SOMERVILLE, BROADWAY AND ELM-STREET DISTRICT.

September 9th a contract was signed with Timothy F. Crimmings and Dennis C. Collins for the construction of a sewer in Paulina street, and in Broadway, from Paulina street easterly to Wallace street. September 23d a contract was signed with Willard B. Byrne for the extension of this sewer from Wallace street easterly to Elm street.

The Paulina-street sewer is built of brick, egg-shaped, eight inches thick, thirty inches by forty-five inches, and is 838.75 feet in length. The sewer in Broadway between Paulina and Wallace streets is built of brick, eight inches thick, egg-shaped, twenty-six inches by thirty-nine inches, and is 854.8 feet in length.

These two sewers were completed December 23d, at a total cost of \$9,274.93, including seven manholes and the cost of excavating 335.23 cubic yards of rock.

Work on the extension of this sewer from Wallace street to Elm street was closed for the season about the middle of December, and will be resumed early in the spring.

This sewer was built of brick, four inches thick, egg-shaped, is twenty-two inches by thirty-three inches. About 133.06 linear feet of this sewer has been completed. It is expected the entire system will be completed during the coming year, at a total estimated cost, including the cost of the sewer in Willow avenue, of about \$24,000, and a cost to the city, exclusive of assessments, of about \$17,000.

NORTH METROPOLITAN SEWERAGE SYSTEM.

The work of construction has been continued during the year. On February 24th, 1893, of the entire line of sewer from the outer end of the outfall at Deer Island to the Somerville and Cambridge city line by way of the Asylum grounds, Poplar and Medford streets, all but 4,800 feet was either under contract or being done by the day.

Of the Alewife brook branch, all but 5,800 feet was either under contract or being done by the day.

EXTENSION OF THE SEWERAGE SYSTEM IN WEST SOMERVILLE, CLARENDON HILL DISTRICT.

In that portion of West Somerville bounded by the Arlington branch railroad, North avenue, Alewife brook, Broadway, and Holland street no sewers have been constructed, except in a limited area bounded by Holland, Elmwood, Mead, and Newbury streets.

A small brook runs through about the centre of this area, and into this brook all surface water, as well as the house drainage, is discharged. In some places the brook is very shallow and has a very slight fall, and the water is spread over extended areas in stagnant pools, and in warm weather becomes very offensive. In houses adjacent to the brook considerable sickness has been noticed of a character directly traceable to this stagnant or slow-running brook. It is important that some improvement should be made of a temporary character which will more quickly dispose of the surface water.

Immediate steps should also be taken to dispose of the house drainage by a separate system of sewers, and the storm water by covered channels,—the house drainage to discharge into the Metro-

politan sewer near Alewife brook, and the storm water into the present brook west of Cameron avenue.

WOODBINE-STREET DISTRICT.

For several years the attention of the City Council has been directed to the unhealthy condition of this locality. The topography is very flat, and but little natural drainage can be expected. There must, therefore, be in this locality considerable stagnant water. This in itself would not be unhealthy, but might be objectionable; but if the house drainage is allowed to flow out on the surface, the danger to health from this lack of drainage is more evident. There are in this locality twelve houses from which the house drainage is discharged on the surface of the ground immediately adjacent to the houses. A sewer should be constructed through Woodbine street and across private lands and discharged into the sewer in Albion street.

All new work in the sewer department has been done by contract.

TABLES.

A table may be found in Appendix A, showing the location, size, cost per foot, assessment, and cost to the city of sewers built in the year 1892.

HIGHWAYS.

The work of the highway department does not come under the charge of the city engineer, and the following items and details are given below simply for information.

The cost and quantities have been compiled from the report of the committee on highways, and from the records and measurements of work done on file in the office of the city engineer.

The work of the highway department is done under the direction of the superintendent of streets, Mr. Thomas H. Eames, to whom I am indebted for many facts from which my figures have been compiled, as well as for the uniform courtesy and assistance I have received from him during the year.

The appropriation for highways for 1890 was . . .	\$55,000 00
Add for collections for work done in former years, watering streets account (paving at stand-pipes), materials on hand, tools and property, profit on tools, property, and materials, and unpaid bills for materials	826 37
	<hr/>
	\$55,826 37

The items of expenditures are as follows:—

Laying out streets, advertising notices of hearings . . .	\$73 90
Construction of streets	3,883 91
Street crossings	2,420 73
Street signs erected	54 70
Repairs and improvement of streets in connection with setting edgestones	8,276 86
Repairs of Broadway, Cross to Marshall, on account of constructing Broadway Parkway and conse- quent relaying of street railway tracks . . .	5,272 20
Ordinary repairs of streets	10,230 40
General repairs of streets	13,331 02
Cleaning streets	4,774 65
Labor, laying brick and edgestone for single estates, . . .	581 36
Repairs of brick sidewalks	426 10
Repairs and draw-tender's salary on bridges . . .	761 19
Retaining wall Washington street, Medford street to Shawmut street; grading and sodding slope and setting curbing Shawmut street to Boston & Lowell Railroad	760 00
Removing snow and ice from streets and sidewalks . . .	1,368 43
Work done on sidewalks not assessed	110 78
Taxes on gravel land	164 13
Shed at Wild Cat Hill gravel bank	104 54
Repairs at City Farm building	87 16
Superintendent's salary	1,600 00
Board of horses	418 31
Use of telephone	40 00
	<hr/>
<i>Amount carried forward</i>	\$54,740 37

<i>Amount brought forward</i>		\$54,740 37
Books, stationery, and printing		63 25
Sundry expenses		153 88
Private work not paid for in 1892		532 46
		<hr/>
Total cost of work done		\$55,489 96
Balance unexpended		336 41
		<hr/>
		\$55,826 37

EDGESTONE AND BRICK SIDEWALKS.

The appropriation for edgestone and brick sidewalks was		\$10,000 00
Credit, sale of Winchester gravel land		200 00
Credit for materials		02
		<hr/>
		\$10,200 02
Thirty-five sidewalks were laid in 1892, at a cost of		\$20,438 05
Less assessments		10,219 04
		<hr/>
		\$10,219 01
Advertising notices of hearings		25 00
		<hr/>
Cost to city		\$10,244 01
Excess of expenditure over appropriation		\$43 99

The work done is itemized as follows:—

Eighteen thousand two hundred and twenty-seven linear feet of edgestone.

Six thousand two hundred and eighteen and one-tenth square yards of brick sidewalk.

The repairs made on the main avenues in the city were confined to Broadway, from Cross to Marshall, Middlesex avenue, from Mystic avenue northwesterly, and Beacon street, from Kent street to Ivaloo street. In addition to this, Somerville avenue, Webster avenue, and Union square were paved. A descriptive account of this work of paving will be found under the head "City Engineer's Department," on page 367.

REPAIRS ON BROADWAY.

The repairs on Broadway were consequent upon the construction of the parkway and the incident change in the grade and location of the street railway tracks, alluded to under the head of "Broadway Parkway." The surface of the old roadway to a depth sufficient to allow for five inches of broken stone, and one inch of gravel in the roadway as rebuilt, and to conform to the grade of the parkway and the street railway tracks. The easterly half of the roadway was macadamized with stone purchased of the Massachusetts Broken Stone Co., the westerly half with stone from the city ledge; the latter stone is of soft slaty rock, the former of very hard trap rock. It will be of interest to notice the comparative value of the two kinds of rock, as both sides will be subject to the same wear. The cost of this work, as taken from the report of the committee on highways, was \$5,272.20.

MIDDLESEX AVENUE.

In the reports of the city engineer for the years of 1891 and 1892, reference was made to the condition of the roadway of this avenue. It was barely safe for travel, and its condition was not at all creditable to the city. The surface of the road has been raised about twelve inches. About one-half the length of the street was covered with material excavated from the street surface on the site of the parkway on Broadway; the remainder, with small ballast from a neighboring ledge. The stone was covered with a clayey gravel taken from that portion of Ten Hills Farm immediately adjoining the avenue. The cost of this work, as taken from the report of the committee on highways, was \$1,885.10.

BEACON STREET.

The repairs were made by removing the old surface and adding about five inches of ballast covered with two inches of broken stone screened from the old material and one inch of gravel.

This part of Beacon street has been in exceedingly bad condition for a long time. The total cost of the improvement, as stated in the report of the committee on highways, was \$857.50.

LINWOOD STREET.

This street was re-macadamized. About five inches of broken stone was used and covered with one inch of gravel. The stone was purchased of F. W. Mead; the gravel teamed from Wild Cat Hill. The total cost of this work, as stated in the report of the committee on highways, was \$2,507.60. The length of the street improved was 2,050 feet.

In 1885 this street was filled and macadamized at a cost of \$3,920.40; the linear feet of street improved at that time was 2,100.

If it were necessary to know what the annual cost of maintaining this street was, it should be remembered that the surface of this street was practically worn out in 1888, and its actual wearing time was not more than three years.

MEDFORD STREET, SOMERVILLE AVENUE TO THE CAMBRIDGE LINE.

In the year 1890 this street was thoroughly macadamized from the Fitchburg railroad to the Cambridge line with Mead stone. It was very thoroughly constructed, and was as good an example of a macadamized road as was ever built. At the end of a year the surface of the roadway was badly worn, and in the spring of 1892 it was entirely worn out. It has been in that condition ever since.

To account for so speedy destruction of a well-built macadam road, it is perhaps enough to state that the travel is unusually heavy and the subsoil unusually unsuitable for any road constructed with a gravel surface, whether of macadam or telford construction. The extremely large amount of teaming done by the North Packing & Provision Co., John P. Squire & Co., and the New England Dressed Meat & Wool Co., and the heavy loads which these teams carry, considered in connection with the nature of the subsoil, which was formerly marsh and is probably the most unsuitable for a foundation for any road intended for heavy traffic which could be encountered, are sufficient reasons for the results which appear in the complete destruction of the street surface.

The cost of the work done in 1890 was \$1,235.56; and when it is known that the macadam road wore only one year, it must be evident that its maintenance is very expensive. Some method of street

construction more in keeping with the traffic over it should be determined upon before any further repairs are made.

MEDFORD STREET, GRANITE BLOCK PAVING.

The arguments advanced for paving Somerville avenue, completed during the past year, will apply with greater force to the paving of Medford street. The heavy travel is more concentrated than in Somerville avenue, and the street in that proportion more expensive to maintain.

The economy in paving is more evident if the cost of maintenance of a macadam road is compared with the first cost of paving. The cost of maintenance in a paved surface, if well laid on a good foundation, is so small for the first ten years that it can be omitted in a comparative statement of the cost of a macadam and paved street in this location.

The cost of paving Medford street, from Somerville avenue to the Cambridge city line, with granite blocks on a concrete foundation, not including the laying of any new edgestone or brick sidewalks, would not exceed \$23,000. If the cost of the repairs in 1890 be increased in the proportion in which the increased length of street to be paved exceeds the length repaired in 1890, the estimated cost of repairing the length proposed to be paved would be \$1,900. This sum would capitalize \$47,500 at four per cent.; a sum more than double the cost of paving with granite blocks. If it is assumed that the macadam road would wear eighteen months instead of one year, an annual expenditure of \$1,267 would be required to maintain a macadam road; a sum sufficient to capitalize \$31,675 at four per cent., a sum which exceeds the cost of laying a granite block pavement by about \$9,000.

In short, an annual expenditure for a macadam surface of not less than \$1,900 per year, or an annual interest account of four per cent. on \$23,000, or \$920, for a paved surface.

A further, but more indirect, benefit will result from the saving in wear and tear in horses, wagons, and harness, and the cost of repairing and replacing broken springs, axles, etc., which are often caused by the bad condition of a bad road surface; also from the saving in time and labor in hauling heavy loads over a paved surface in contrast with a macadam road when not in perfect condition.

The cost of repairs in 1892 from Somerville avenue to the Fitchburg railroad, as stated in the report of the committee on highways, was \$1,408.80. These repairs extended over a greater length of street, but were not as extensive as in 1890.

REPAIRS AND IMPROVEMENTS OF STREETS IN CONNECTION WITH SETTING EDGESTONES.

Edgestones were set on thirty-three streets. If the cost of work done on Linden avenue be taken from the total cost of repairs, the cost of repairs per linear foot of edgestone set, including the cost of paved gutters, would be \$0.45.

LINDEN-AVENUE REPAIRS.

On the plan and profile showing the line and grade of Linden avenue under which the street was accepted, the grade of the centre of the street was the only grade given. As the walk on the easterly side was about two feet higher than the westerly side, it was not thought that the grade line, as shown on the plan, was sufficiently definite to allow the city to construct sidewalks in such a way as would provide for the best and safest cross section of the street, without a considerable risk of having claims presented for grade damages.

For this reason, a new plan was prepared, showing the grade of both edgestone lines, and after a release from claims for grade damages was obtained from abutters, the plan showing the change in grade was adopted by the City Council. The work of grading the street and paving gutters was afterwards completed, at a cost of \$1,163.24. The cost of street construction per linear foot of edgestone laid was \$0.52.

CONSTRUCTION OF STREETS.

The average cost per linear foot for streets constructed was \$0.90; the average width of roadway is twenty-seven feet. Total cost, \$21,411.51.

WASHINGTON STREET, RETAINING WALL AND STREET IMPROVEMENT.

On the northwesterly line of Washington street, from Medford street to the Boston & Lowell railroad location, no permanent sidewalk was ever constructed. In that part of the street between the Boston & Lowell location and Tufts street a retaining wall and pier was constructed in 1887, at the time the new bridge was built, and a sidewalk was partially constructed at that time. On that part of the street first mentioned, the sidewalk as used was elevated from eighteen inches to three feet above the surface of the roadway, and between it and the roadway a rough, unsightly, and irregular slope had been formed by the action of water and in other ways, until it was very objectionable in appearance, and dangerous to travel in wet weather and particularly after dark. No improvement in the surface of the sidewalk could be made unless a brick sidewalk was constructed, and with the construction of the brick sidewalk came the necessity for maintaining a permanent slope between the sidewalk and the roadway. No great change in the grade as it then existed could have been made without causing heavy grade damages.

The grades for a new sidewalk and the existing roadway were carefully studied, and two plans were submitted to the committee on highways: one, to construct a retaining wall on the edgestone line from Medford street to the railroad location, the grade of the top of the wall to conform substantially to the existing surface of the sidewalk as it was used; the second, to construct a wall on the edgestone line between Medford and Shawmut streets, to set an edgestone from Shawmut street to the railroad location to conform substantially to the grade of the sidewalk as then used; to grade a regular slope from the edgestone to the roadway surface; and to set a curbing at the foot of the slope to protect the grass slope and support the earth slope and the paved gutter in the roadway.

The second plan was approved by the committee on highways, because it seemed to provide an easier means of access to abutting estates, and was deemed to be less unsightly than a retaining wall.

The wall and slopes were constructed and an iron fence made of wrought-iron pipe was erected on the edgestone at the top of the slope. The work was done by the highway department; the grades

and lines were furnished by the engineering department, but no plans for the wall were prepared.

The cost of the whole work, as stated in the report of the committee on highways, was \$760.

EDGESTONE AND BRICK SIDEWALK LAID IN SOMERVILLE,
DECEMBER 31, 1892.

280,235 linear feet, or 53.07 miles, of edgestone.

5,284 linear feet, or 33.19 miles, of brick sidewalk.

TABLES.

In Appendix B will be found a table showing location and cost of edgestone and brick sidewalks and paved gutters, and of roadways constructed in streets where edgestone and sidewalks have been laid in 1892.

The average cost of repairing, grading and macadamizing per linear foot of edgestone laid, as computed from this table, is about \$1.59.

In Appendix C will be found a table showing the location and cost of street improvements made during the year.

In Appendix D will be found a table showing the location, length and width of streets accepted in 1892. Plans for these streets, as submitted by the abutters, have been revised and corrected.

In Appendix E will be found a table showing the location and length of public and private streets.

STREETS NUMBERED.

By vote of the City Council in 1890, the city engineer was required to affix a street number to every house and building in the city; and to furnish numbers free of expense to the owner.

By this method of furnishing numbers, it is possible to fix a number to every building in the city before it is occupied; for the amount saved by the owner, the cost of the numbers, probably considerably increases the demand for numbers, and also distributes the work of numbering more equally through the year.

Previous to May 1 the street numbers as used are compared with

the street numbering plans; errors are corrected and numbers are affixed to houses where none are found.

At the time the above-mentioned vote was passed, to comply with its requirements, about 135 plans of 349 streets and courts were prepared. These plans were compiled in a very short time, and were not in proper form for record plans.

During the past year these plans have been duplicated in proper form for record whenever the office work would permit.

BRIDGES.

Bridges over the Boston and Lowell Railroad.

CROSS, CENTRAL, AND CEDAR STREETS BRIDGES.

These bridges are all iron bridges, comparatively new, and are in good condition.

WALNUT-STREET BRIDGE.

This bridge is in good condition. The southerly abutment has moved outward and is not safe. It should be rebuilt at once.

MEDFORD-STREET BRIDGE.

This bridge is in good condition. The iron work has been painted and the wooden floor timbers and deck planking have been renewed the past year.

SCHOGL-STREET BRIDGE.

The bridge, approaches, and abutments are in good condition.

SYCAMORE-STREET BRIDGE.

The approaches and bridge are in good condition. The surface water should be diverted from the street into the drainage ditches on either end of the bridge and not be allowed to run over the wall, as it now does.

BROADWAY BRIDGE.

The wooden bridge, which has for some time been in an unsatisfactory, if not unsafe, condition, has been removed, and an iron bridge is now being erected.

Bridges over the Fitchburg Railroad.

PROSPECT-STREET BRIDGE.

The bridge is in good condition. The northerly abutment is in worse condition than in 1891. It should be rebuilt this year.

WASHINGTON-STREET BRIDGE.

This bridge is in good condition.

BEACON-STREET BRIDGE.

The bridge appears to be in good condition. The southwesterly abutment shows signs of movement, but is probably safe.

Miscellaneous Bridges.

BROADWAY BRIDGE OVER ALEWIFE BROOK.

The retaining walls need pointing and are considerably worse than in 1891. The arch appears to be in good condition, except that the surface water finds its way through the arch ring. This should be prevented by collecting the surface water by a catch-basin.

BOSTON-AVENUE BRIDGE.

The fences were rebuilt in 1892 and the floor replanked. The bridge is in good condition.

MIDDLESEX-AVENUE BRIDGE.

The sidewalk planking on the Somerville side should be repaired. The fence rails are badly decayed and ought to be repaired this sea-

son. The planking on the easterly pier head should be relaid with new plank.

The faces of the channel way should be replanked, and new cross bracing on the pier is needed.

PERAMBULATION OF THE MEDFORD LINE.

A committee of the City Council, consisting of Alderman Newell F. Caswell and Councilman John Andrews, representing Alderman William L. Barber, the city engineer, and superintendent of streets, in company with a similar committee from the town of Medford, met at the Mystic water works pumping station, October 20th, 1892, and perambulated the boundary line between Somerville and Medford, examined all the bounds and found them all substantially in good condition.

PUBLIC GROUNDS.

The work done on the public grounds comprises a considerable amount of improvement, particularly on Central Hill and at Nathan Tufts Park.

The appropriation for the public grounds department for 1892 was \$5,700. The cost of the work which the committee voted to do was so large that by the first of July the appropriation was exhausted, and as the additional appropriation could not be obtained, it became necessary to discharge all the men employed, and for this reason no work was done on the public grounds after July 1st.

The work of the public grounds department in the line of improvements was as follows:—

On Central Hill, grading and seeding the Medford-street slope. In 1890 the entire northerly slope of the hill was graded and covered with loam, and the area south of the walk leading through the park from the railroad grounds to the corner of Walnut and Medford streets was seeded. The area north of this walk extending to Medford street was not seeded, because the appropriation had been expended when the ground had been covered with loam. As the appropriation of 1891 was not sufficient to provide for the work of seeding, the ground was allowed to grow to weeds, and in 1892,

when it was finally seeded, the entire area had to be ploughed and regraded.

If fifty dollars had been expended in seeding in 1890, the amount expended in 1892 could have been saved. The items of expenditure will be found on page 401.

GRADING AND SEEDING NORTH OF THE HIGH SCHOOL.

When the new Winter Hill station was erected a considerable portion of the hill was graded back from the slope, retaining walls were built, and the hill sodded for a considerable distance from the depot grounds. The surface of the hill, between the depot grounds and the walk leading northerly from the high school to School street, was uneven with very little grass on it.

During the year this area was ploughed, graded, covered with loam, seeded and trees were set out. The cost of this work was \$1,550.59.

GRADING SCHOOL-STREET SLOPE.

For many years this part of Central Hill has been very unsightly. School street was graded considerably below the public grounds, and only an earth slope, without loam or grass, was left. The surface and ground water washed over the sidewalk and often burst through the brick sidewalk, so that it was almost impassable in winter from ice, and almost impossible to maintain the brick sidewalk in the spring.

A catch-basin was constructed on the city land near the School-street entrance, and a blind drain was laid parallel and close to the sidewalk. This drain was dug four feet deep and filled with three feet of stone and is connected with the catch-basin in School street.

The earth slope has been graded and made to more nearly conform to the contour of the hill. It has been covered with loam twelve inches deep and seeded. The total cost was \$399.80.

NATHAN TUFTS PARK.

As the gift to the city of Somerville of the Old Powder House and surrounding ground is of considerable importance, and as there are some facts of a historic nature which will be of value if recorded

for future reference, the following abstract of the papers and proceedings of the City Council and a short account of some items of history connected with the Old Powder House which I have been able to collect, are herewith submitted.

A communication was presented to the City Council December 10, 1890, from the heirs of Nathan Tufts, which contained a proposition whereby they agreed to convey to the city of Somerville the Old Powder House and surrounding grounds, under certain conditions. By an order adopted by the City Council January 3d, 1891, and approved by the mayor January 5th, 1891, the gift of the Old Powder House and adjacent land was accepted upon the condition expressed in the communication submitted from the Tufts heirs to the City Council December 11, 1890.

March 6, 1891, an order was introduced in the Common Council requesting the committee on public grounds to consider the expediency of acquiring additional land adjoining the proposed park. After some consideration, the committee on public grounds addressed a communication to the heirs of Nathan Tufts, dated April 11, 1892, which expressed a desire to acquire more land than was donated by the original gift, and submitted for their consideration certain modifications of the original proposition, which are quoted from the communication of April 11 as follows:—

1. "That you will give to the city of Somerville the Powder House building and about 68,400 feet of land surrounding it, as contemplated in your offer of December 10, 1890, upon the following conditions."

2. "That the Powder House be kept perpetually in repair, and that the land surrounding it, included in the said gift, be made into a public park and forever maintained as such, to be called the 'Nathan Tufts Park.'"

3. "That the city will lay out and construct the carriageways and footways, which are laid down and indicated on the plan submitted herewith, made by the city engineer, and dated April 11, 1892, and which are within the broad blue line, as shown on said plan, indicating the boundary line of the park property."

4. "That the abutters on said carriageways shall have the right to pass and re-pass over the same."

5. "That no assessment for betterments on account of the park shall be levied upon the owners of the so-called Powder House farm."

6. "That the work of constructing the carriageways and footways in said park property shall be commenced within three months from the delivery of the deeds of such property to the city, unless the deeds shall be delivered at so late a date that work cannot be proceeded with before the frost sets in, and in that case, within three months from the time when the frost shall be out of the ground; and that 'Liberty avenue,' as shown on said plan of April 11, 1892, shall be constructed within the limits of said park property within one year from said delivery of the deeds, and all carriageways and footways within said park property shall be constructed within two years from said delivery of the deeds."

7. "The deed of land donated by you, as referred to in Clause 1, is to contain the above conditions."

8. "That you will give to the city a deed of the remainder of the land included within the broad blue line, as shown on said plan of April 11, the city paying you for such remainder the sum of fifteen (15) cents per foot; that is to say, you are to receive fifteen cents per foot for the land within said park property, except that portion and quantity which is to be donated by you as aforesaid; the land included within the area of Liberty avenue within the broad blue lines, as shown upon the plan, not to be reckoned as part of the land to be paid for, since it is to be maintained as a street, as shown on said plan."

This proposition, above referred to and quoted from, was accepted by the Tufts heirs by a letter dated May 7, 1892, and on May 11 this proposition was submitted to the City Council, and an order was passed by both branches of the City Council, by which the city ratified said proposition, accepted the donation of certain lands upon the terms and conditions as stated, and authorized the committee on public grounds to accept and receive in behalf of the city a deed or deeds of the lands to be donated and a deed or deeds of the lands to be purchased, and authorized the city treasurer to borrow therefor the sum stipulated.

The area donated amounted to 68,357 square feet, and the area purchased to 129,497 square feet. The order above referred to further appropriated the sum of \$25,000 for the purchase and improvement of said lands and the construction of said park in accordance with said communication and said plan of the city engineer.

The deed of land donated was signed May 28, and recorded at

the Middlesex Registry of Deeds, June 6, 1892, in libro 2,119, folio 524.

The deed of land purchased was signed and recorded at the same time and place in libro 2,119, folio 521.

The above deeds were signed by Francis Tufts, Sarah E. Kidder, Martha B. Tufts, Hannah J. Allen, Mary Alice Tufts, Albert C. Tufts, Nathan F. Tufts, and Fannie S. Tufts.

A certificate of performance of the conditions under these deeds was recorded at the Middlesex Registry of Deeds, March 7, 1893, libro 2,180, folio 493.

HISTORICAL TABLET.

June 28, 1892, a petition was received from the Massachusetts Society of the Sons of the Revolution for the privilege of erecting a bronze tablet, suitably inscribed, upon the Old Powder House, the tablet to become the property of the city of Somerville. July 14, 1892, an order granting the petition upon the conditions expressed therein was approved by the mayor.

December 14, 1892, a communication was received from the above-mentioned society formally presenting to the city of Somerville the bronze tablet which had been placed upon the Old Powder House. The City Council, by an order dated December 14 and approved by the mayor December 16, accepted the gift of the bronze tablet, and heartily concurred in the following sentiment expressed by the society in its letter of presentation: "That the tablet may serve to remind the present generation and the generations which shall follow of the patriotic deeds of our heroic forefathers."

The following is a copy of the inscription of the bronze tablet placed upon the Old Powder House by the Massachusetts Society of the Sons of the Revolution, and presented to the city of Somerville:—

This old Mill,

Built by John Mallet on a site purchased in
1703-4, was deeded in 1747 to the province of
the Massachusetts Bay in New England,
and for many years was used as a public

Powder House.

On Sept. 1st, 1774, General Gage seized
the 250 half-barrels of gunpowder
stored within it and thereby provoked the

Great Assembly of the following day on
Cambridge Common
The first occasion on which our patriotic
forefathers met in arms to oppose the
Tyranny of King George III; in 1775 it
became the magazine of the
American Army Besieging Boston.

This tablet was placed by the
Massachusetts Society of
Sons of the Revolution,
Sept. 1, 1892.

CONSTRUCTION OF DRIVEWAYS.

Early in the season specifications and contracts were prepared for grading the roads and walks shown on the plan adopted by the City Council. July 30, 1892, a contract was signed with Christopher Burke, and work was begun immediately thereafter. The work done under this contract is as follows: Between the lines of the slopes of all the roads, the loam has been stripped and deposited in piles convenient for use in grading slopes. Liberty avenue has been constructed to sub-grade. The road leading northeasterly from Powder House terrace and located on the southeasterly side of the Powder House has been sub-graded to the entrance at Elm street. The stone culled from the earth and rock excavation has been deposited in piles convenient for use on the roads.

The cost of work done under the contract to date is \$2,640.97.

In addition to the work done by contract, the following has been done by day labor: The stone walls formerly located within the limits of the park have been removed and the stone deposited in convenient piles for use on the roads. The ruins of the Emerson pickle factory buildings have been removed, the site cleaned and the cellar partly filled. All unsightly trees have been cut down. The face of the rock bluff has been cleaned from the wild growth of bushes, weeds, etc. Considerable quantities of stone have been collected about the grounds and deposited in piles. Excavations have been made along the top of the rock bluff to determine its character and profile as a study for the proposed parapet wall. The cost of the work done by the day has been \$505.08.

The amount expended to December 31, 1892, less amount re-

ceived from the sale of dwelling-house and old materials, has been \$21,620.95.

Items of expenditure, Nathan Tufts Park:—

Land	\$19,424 55
Labor	142 58
Printing specifications, contract for grading . .	6 80
Christopher Burke, payments on contract and extra work	2,167 12
Lumber	4 63
Stakes	8 60
Repairs on Powder House	4 17
Sign and lettering	3 50
Advertising sale of building and auction	19 50
	<hr/>
	\$21,781 45

BROADWAY PARKWAY.

The construction of the parkway in Broadway, between Arthur street and Marshall street, has been completed. In November and December, 1891, the location of the street railway tracks was changed from the northeasterly side of the roadway to the centre, and the grades of the tracks were adjusted to the grade of the proposed parkway in such a manner as to allow a crown of one-half inch to the foot in the roadway from gutter to parkway curbing, and a slight grade from curbing to railway tracks. Iron poles were placed in the centre of the space between the tracks, and on the poles cross arms were placed, from which the trolley wires were hung.

Early in the spring curbing was placed on the outside lines of the parkway, leaving a roadway forty-three feet wide on the northeasterly side, with a width varying from forty-two to forty-four feet on the southwesterly side. The surface of the old roadway included within the lines of the curbing was broken up and removed to a depth of eighteen inches below the grade of the tracks; and as this depth of excavation did not remove all the ballast used in the old roadway, a layer of street sweepings six inches thick was spread over the bottom of the excavation to prevent the loam and water from leeching through the underlying ballast. Twelve inches in depth of loam was used to surface the parkway to the grade of the curbing, and enough

more added to grade to the railway tracks. A sod border was laid inside the curbing and outside the rails of the tracks, and the balance of the area within the parkway seeded, except the area between the rails of the tracks, which still remains in the same condition as in November, 1891 (which is to be graded and maintained by the street railway company). The West End Street Railway Company has agreed to complete the grading and seeding of this area early in the coming season.

A line of maple trees was set out parallel with each line of curbing. The macadam and ballast excavated from the surface of the old street was used to macadamize Middlesex avenue, but no credit was allowed the parkway appropriation for the material taken from the limits of the parkway.

The area improved included within the lines of the curbing is 61,688 square feet. The area between the outer rails of street railway tracks is 22,760 linear feet.

The area which the city is obliged to maintain is 38,928 feet; the street railway company, 22,760 feet.

MATERIALS USED.

2,258.8 linear feet of curbing	\$1,053 41
5,992.6 cubic yards loam delivered	2,774 93
9,471 square feet sod borders delivered	284 13
12 granite posts delivered	90 00
67 maple trees delivered	67 00
1 catch-basin constructed	67 17
Temporary wire fence	27 23
Lime and cement	3 90
Fertilizer	25 00
Grass seed	16 00
Labor	977 50
Teaming	154 90
<hr/>	
Total cost	\$5,541 17
Less cost of loam used between tracks paid for by West End Street Railway Co.	247 95
<hr/>	
Net cost of parkway	\$5,293 22

CITY HALL AND LIBRARY GROUNDS.

Maintenance.

Labor, care of walks and grass to July 1,	\$156 45	
Plants	10 00	
Repairs of water pipe, library basement,	1 50	
	<hr/>	\$167 95

HIGH SCHOOL GROUNDS.

Maintenance.

Labor, care of walks and grass to July 1	65 63
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CENTRAL HILL.

Maintenance.

Labor, care of walks and grass	\$648 09	
Sod	26 00	
Repairing and painting settees	12 77	
Painting guns	10 70	
Pointing battery wall	5 65	
Building temporary wire fences	77 60	
Tools and property	67 95	
Repairing tools, oil, and express charges,	40 38	
Plants	20 00	
Electric lighting to December 31, 1892,	75 90	
Street watering	19 25	
Police service	37 50	
	<hr/>	1,041 79
Sidewalk assessment, Medford street		205 97

IMPROVEMENTS.

Building toolhouse (rear of City Hall)	165 54
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Grading and seeding Medford-street slope, Walnut street northwesterly to railroad grounds:—

Labor and teaming	\$249 28	
<i>Amounts carried forward</i>	<hr/> \$249 28	<hr/> \$1,646 88

<i>Amounts brought forward</i>	\$249 28	\$1,646 88
Loam	94 70	
Dressing	152 07	
Grass seed	32 00	
	<hr/>	528 05

Grading and seeding northwest of High School walk to School street:—

Sod	\$85 60	
Labor	920 56	
Teaming	146 20	
Filling	33 50	
Loam	24 48	
Dressing	241 15	
Grass seed	26 00	
Trees	51 50	
Lime	16 60	
	<hr/>	1,545 59

Grading School-street slope:—

Labor	\$196 95	
Teaming	20 75	
Loam	77 36	
Dressing	18 75	
Grass seed	8 00	
Sod	19 00	
Catch-basin	58 99	
Trees	5 00	
	<hr/>	404 80

BROADWAY PARK.

Maintenance to July 1, 1892.

Labor, care of walks and grass . . .	\$666 11	
Trimming trees and shrubs . . .	51 75	
Horse hire, grain and hay . . .	61 48	
Electric lighting to December 31, 1892,	224 40	
Police service	27 50	
Raising and lowering flagstaff . . .	25 00	
Plants	60 00	
	<hr/>	
<i>Amounts carried forward</i> . . .	\$1,116 24	\$4,125 32

<i>Amounts brought forward</i>	\$1,116 24	\$4,125 32
Tools and repairs of same	120 71	
Oil and painting seats	5 83	
Trees	18 75	
Loam	9 75	
Street watering	51 76	
Repairing flagstaff topmast	4 95	
	<hr/>	1,327 99
Repairing toolhouse		25 11

BROADWAY PARKWAY.

Labor	\$10 87	
Lumber	2 55	
	<hr/>	13 42

SOMERVILLE-AVENUE CEMETERY.

Repairing fence	4 64
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MEMORIAL TABLETS.

Painting letters on stone tablets erected in 1891	16 50
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SOMERVILLE LIGHT INFANTRY DRILL FIELD.

Work done on the Young Men's Christian Association grounds on Washington street, and charged to public grounds account, on condition that company be allowed to use the grounds for a drill field:—

Labor and teaming	150 00
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MISCELLANEOUS.

Carriage hire	10 00
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CHARLES G. POPE SCHOOL.

Work done and materials furnished in grading the Charles G. Pope School grounds, charged to schoolhouse incidentals account

567 12

Cost of work done by public grounds department

\$6,240 10

WATER WORKS.

Lines and grades for laying water pipes have been given, and all mains and services have been located and recorded.

The high-service system still remains practically in the same condition as in 1890. The extensions recommended in the report of the special committee of the City Council have not been made. The twelve-inch main on Highland avenue and the ten-inch main on Summer street should be laid this year, as both these lines are wrought-iron, cement-lined pipe, and cannot be depended upon for excessive service if a large supply of water should be demanded for fire purposes.

In the report of the city engineer for the year 1891 it was recommended that a second tank was needed on Winter Hill, and a reserve boiler at the pumping station. No action has been taken on either of these recommendations. The necessity of making these additions to the high-service system is more urgent than last year.

Should it be necessary at any time to stop pumping on account of some accident to pump or boiler, or some defect in the force main, the capacity of the tank would be sufficient for only a limited time, and in such an emergency it would be necessary to use the low-service pressure.

It would be very hazardous to adopt this pressure, for the large number of houses now built on the high lands would be without a water supply, except possibly during a few hours at night, and in case of fire no water could be obtained.

It would not be advisable at any time to pump directly into the mains because of the large proportion of cement-lined pipe in use.

It will soon be a matter of economy to erect a second tank to avoid the more costly expedient of running the high-service engine on a continuous service in order to supply the increased consumption due to the great increase in population. A continuous service would increase the liability to accident in the pumping plant, and add to the pumping station's expenses for fuel and salaries.

Land available for the location of a tank on Winter Hill will

soon be occupied, and can then only be obtained at a much larger cost than now.

Immediate action should be taken by the City Council in the matter of the purchase of land.

A second boiler is needed at the pumping station for use in emergencies such as might occur if the old boiler should need repairs. It is also needed as a reserve when it may be necessary to clean or inspect the old boiler.

The twelve-inch low-service main laid in Somerville avenue from East Cambridge line northwesterly to Central street is part of the system recommended in 1891. It is unfortunate that a second twelve-inch main connected with the high-service supply was not laid at the same time. It will be needed within a few years, and it would have been a more economical method to have laid both mains at the same time. It would not then have been necessary to disturb the granite pavement laid during the past year.

The twenty-inch main recommended and laid in 1891 in Washington street, from Tufts street to Medford street, was not extended in 1892. It should be laid through Tufts and Cross streets, and be connected with the thirty-inch supply main before any further extensions are made in a northwesterly direction.

A twelve-inch main was laid in Somerville avenue from the East Cambridge line to Central street, except that a portion of the main between Medford and Mansfield streets is sixteen inches in diameter. A fourteen-inch main was laid across Somerville avenue at Medford street to connect with the fourteen-inch main in Medford street laid in 1891. This twelve-inch main was laid to replace an eight-inch main cement-lined, wrought-iron pipe.

The eight-inch cement-lined pipe on Dane street was relaid with twelve-inch iron, from Somerville avenue to Washington street.

The eight-inch cement-lined on Medford street was relaid with twelve-inch iron, from Somerville avenue to Highland avenue.

The six-inch cement-lined on Prospect street was replaced with sixteen-inch iron, from Washington street to Newton street.

The four-inch cement-lined on Summer street was relaid with ten-inch iron, from Bow street to School street.

The eight-inch cement-lined on Washington street was relaid with twelve-inch iron, from Myrtle street to the Boston line; and from Dane street to Beacon street was relaid with ten-inch.

These are the more important mains relaid during the year. A large amount of eight and six inch pipe was relaid, which is given in full in the report of the superintendent of the water works.

The extensions have been made with six and eight inch pipes. The locations of these extensions are given in full in the superintendent's report.

HORACE L. EATON,

City Engineer.

TABULAR STATEMENT OF SEWERS BUILT IN 1892.

LOCATION.			CONSTRUCTION.										COST.		
NAME OF STREET.	FROM.	TO.	BUILT BY.	MATERIALS	Cubic yds. of Rock Excavation.	Size in Inches.	Manholes.	Chimneys.	Inlets.	Length in Feet.	Average Cut.	Average Cost per Foot.	Total Cost.	Assessment.	Cost to City.
Atherton and (1)	End of sewer built in 1891.	Beech St. Westerly Northwesterly Southernly	Charles A. Mongan . . . Charles A. Mongan . . . Willard B. Bryne . . .	Akron pipe . . . Akron pipe . . . Portland pipe . . .	1.47 - 1.75	10 12 8	- 3 1	- - -	4 39 12	61.6 542.5 214.0	8.2 8.8 9.8	\$1 25 98 1 08	\$76 73 533 99 231 23	\$76 73 533 48 229 60	\$ 00 51 1 62
Beech Browning Road . . . Caldwell Place (2) . . Cambria	End of sewer built in 1885.	Westerly Easterly Northwesterly Southernly	Charles A. Mongan . . . Charles A. Mongan . . . Willard B. Bryne . . .	Akron pipe . . . Akron pipe . . . Portland pipe . . .	- 55.20 -	12 8 10	1 2 1	- - -	10 10 15	147.7 176.3 363.0	8.7 8.2 7.5	1 12 1 02 1 31	164 97 170 92 475 58	164 92 170 60 472 66	06 32 2 92
Elm Place Gilmam Terrace (3) . . Harrison Heath (4) Josephine Ave. (5) . . Melvin Olive Ave. Private way (land of Henry R. Glover) . .	Harvard St. Pearl St. Kent St. Temple St. Morrison Ave. Broadway Linden Ave. Dover St.	Westerly Easterly Northwesterly Southernly Westerly	Charles A. Mongan . . . Charles A. Mongan . . . Richard Falvey . . . Christopher Burke . . . Richard Falvey . . . Willard B. Bryne . . .	Akron pipe . . . Akron pipe . . . Portland pipe . . . Portland pipe . . . Akron pipe . . . Akron pipe . . .	- 453.50 1.40 -	12 8 10 and 8 10 8	1 2 2 1 1	- - - - 1	10 10 23 18 4	147.7 176.3 339.6 392.7 394.4 333.5 141.5	8.7 8.2 6.6 11.3 9.4 5.5 8.3	1 12 1 02 1 31 2 17 2 22 1 22 86 66	164 97 170 92 475 58 217 44 2,337 28 1,525 05 432 20 285 04 93 55	164 92 170 60 472 66 215 63 255 63 1,525 05 475 74 285 04 93 44	06 32 2 92 1 81 2 92 6 40 04 11
Private way (land of Orr N. Towne) (6) Private way (land of Suther Blakie) . .	Pinckney St.	Easterly	Timothy F. Crimmins and Dennis C. Collins . . Willard B. Bryne . . .	Akron pipe . . . Akron pipe . . .	- 39.66	8 8	- -	1 1	5 7	139.1 130.5	6.1 6.4	58 1 55	81 81 202 18	81 77 201 67	04 51
Skehan Somerville Ave. Summer Vinal Ave.	Hanson St. Mosland St. End of sewer built in 1887.	Westerly Northwesterly Southeasterly	Timothy F. Crimmins and Dennis C. Collins . . Richard Falvey Charles A. Mongan . . .	Akron pipe . . . Portland pipe . . . Akron pipe . . .	- - -	8 12 12 and 8	- 1 4	1 - -	6 19 46	118.7 335.3 481.8 706.9	9.8 6.0 13.5 11.4	92 67 1 93 1 30	109 12 223 59 929 64 921 81	109 12 223 53 640 88 919 30	00 06 288 76 2 51
Water and (7) Walter Place White-street Place . . Willow Ave. (8) . . . Winslow Ave.	End of sewer built in 1887.	Northeasterly Walnut St. Southwesterly Southeasterly Hawthorne St. Southeasterly	Charles A. Mongan . . . Charles A. Mongan . . . Charles A. Mongan . . . Willard B. Bryne . . . Richard Falvey . . .	Akron pipe . . . Portland pipe . . . Portland pipe . . . Brick . . . Akron pipe . . .	- 30.14 - 107.16 -	10 12 and 8 8 10 33x22 12	3 1 1 - -	- - - - -	4 30 16 17 61 12	100.0 461.3 210.4 293.9 925.9 248.4	8.6 6.3 7.6 8.7 13.3 6.0	69 1 01 81 3 73 66	69 01 680 94 229 06 3,452 94 169 29	68 47 680 10 115 92 1,722 20 162 79	54 84 123 14 1,730 74 6 50
Total length	and cost of new	sewers built in	1892 . . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	7,960.0	. . . . .	. . . . .	\$12,208 32	\$9,168 55	\$3,038 77

SEWERS REBUILT IN 1892.

LOCATION.			CONSTRUCTION.										Cost.		
NAME OF STREET.	FROM.	TO.	BUILT BY.	MATERIALS.	Cubic yds. of Rock Excavation.	Size in Inches.	Manholes.	Chimneys.	Inlets.	Length in Feet.	Average Cut.	Avg Cost per Foot.	Total Cost.	Assess- ments.	Cost to City.
Glen St. and Private lands . . . Harvard (9) . . .	Private lands . . Glen St. Beech St.	Southwesterly . Northeasterly . Elm Place . . .	- - Charles A. Mongan .	Brick . . . Brick . . . Akron pipe .	- - 1.86	- - 12	1 - 1	- - 12	- - 12	100.0 104.7 259.8	} - -	\$2 23 1 56	\$591 35 404 25	- - -	- - \$995 60
Total length	and cost of sewers rebuilt in 1892	rebuilt in 1892	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	† 24.5	. . . . .	. . . . .	. . . . .	. . . . .

SEWERS CONTRACTED FOR IN 1892, AND UNCOMPLETED DEC. 31, 1892, FOR WHICH NO ASSESSMENTS HAVE BEEN MADE.

NAME OF STREET.	FROM.	TO.	BUILT BY.	MATERIALS.	Size in Inches.	Approximate Length in Feet.	Payments to December 31, 1892.
Paulina St. and . . Broadway Broadway Granite Winslow Ave. . . .	Holland St. . . . Paulina St. . . . Wallace St. . . . Somerville Ave. . . Villa Ave.	Broadway Wallace St. . . . Easterly Osgood St. Northwesterly	{ Timothy F. Crimmings and Dennis C. Collins Willard B. Bryne Charles Linehan . . Maurice Buttmer . .	Brick . . . Brick . . . Brick . . . Akron pipe . Akron pipe .	45x30 39x26 33x22 12 8	845.0 850.0 134.0 480.0 125.0	\$3,855 81 680 45 73 26 -
Total cost to	the city of sewers	built and re-	built in 1892 . . . . .	. . . . .	. . . . .	2,434.0	\$4,609 52
							\$4,609 52
							\$8,644 89

Total length of sewers built by the city previous to January 1, 1892 250,358.4
 Total length of sewers built during the year 1892 7,960.0

Total length of sewers built by the city January 1, 1893 258,318.4
 Total length of sewers built by private parties 25,674.8

Total length of sewers built in the city January 1, 1893 283,993.2

APPENDIX B.

TABLE SHOWING THE LOCATION AND COST OF EDGESTONE AND BRICK SIDEWALKS, OF PAVED GUTTERS AND ROADWAY
CONSTRUCTED IN STREETS WHERE EDGESTONE WAS LAID.

STREET.	SIDE.	FROM.	TO.	WIDTH OF SIDEWALK.	MATERIALS.			PAVED GUTTERS.		GRAVEL.		MACADAM.	
					Gravel and Edgestones, Lineal Feet.	Bricks, Sq. Yds.	Cost.	Sq. Yds.	Cost.	Sq. Yds.	Cost.	Sq. Yds.	Cost.
Arthur . . .	Both . .	Broadway . . .	Bonair St. . . .	6.67	940.5	-	\$663 69	313	\$367 40	-	-	1,120	\$169 10
Berkeley . . .	Both . .	Central St. . . .	Hersey St. . . .	6.67	1,370.7	-	1,013 55	457	578 20	-	-	-	-
Broadway . . .	Southwest	Cross St. . . .	Walnut St. . . .	15.00	1,337.2	-	1,030 84	446	503 10	-	-	-	-
Broadway . . .	Southwest	Norwood Ave. . .	Medford St. . .	19.50	523.1	-	420 18	274	383 00	-	-	-	-
Broadway . . .	Southwest	Easterly line Lincoln Schoolhouse lot	Westerly line of Lincoln Schoolhouse lot	10.83	257.9	165.0	308 51	86	27 50	-	-	-	-
Chauncey Ave. .	Northwest	Broadway . . .	Jaques St. . . .	8.33	476.6	403.8	755 04	159	137 25	-	-	-	-
Dover . . .	Southeast	Davis Square . . .	Cambridge Line . .	6.67	-	626.0	630 20	-	-	-	-	-	-
Elm . . .	Northwest	Chapel St. . . .	Summit St. . . .	10.00	475.9	481.3	891 55	158	140 90	-	-	-	-
Evergreen Ave. .	Southwest	Thurston St. . . .	Sycamore St. . . .	6.67	333.0	213.0	444 79	111	100 30	-	-	820	593 35
Gilman . . .	Southwest	Aldrich St. . . .	Walnut St. . . .	6.67	668.2	-	438 49	223	233 60	-	-	1,680	191 25
Gilman . . .	Northwest	Westerly line estate of Chas. B. Osgood	Jasper St. . . .	6.67	246.4	174.4	413 60	82	97 90	-	-	-	-
Greene . . .	Southeast	Summer St. . . .	Angle in street.	6.67	308.5	-	309 65	103	113 00	-	-	-	-
Grove . . .	Southeast	Highland Ave. . .	South line of Highland Schoolhouse lot	6.67	156.4	115.0	222 72	52	27 15	-	-	-	-
Hathorn . . .	Southeast	Broadway . . .	Arlington St. . .	6.67	329.4	-	219 02	110	91 30	-	-	-	-
Highland Ave. .	Southeast	Grove St. . . .	East line of Highland Schoolhouse lot	10.00	137.4	130.0	233 60	46	41 00	-	-	-	-
Jaques . . .	Southwest	Temple St. . . .	Wheatland St. . .	6.67	821.8	-	548 29	273	232 40	-	-	-	-
Jaques . . .	Northwest	Temple St. . . .	Near Grant St. . .	6.67	475.7	-	372 04	158	104 65	-	-	1,800	333 30
Joy . . .	Southwest	Poplar St. . . .	North line Bennett School- house lot	5.0	149.5	-	116 86	50	42 25	-	-	-	-
Linden Ave. . .	Northwest	Elm St. . . .	Summer St. . . .	7.5	1,120.0	-	820 80	373	322 95	-	-	-	-
Linden Ave. . .	Southeast	Elm St. . . .	Summer St. . . .	7.5	1,127.2	-	1,187 01	376	397 55	-	-	-	-
Linwood . . .	Southeast	Somerville Ave. . .	Washington St. . .	8.33	912.7	1,840.0	1,810 30	-	-	-	-	-	-
Madison . . .	Northwest	School St. . . .	Sycamore St. . . .	6.67	912.7	-	786 10	304	312 70	-	-	-	-
Maple . . .	Southwest	Poplar St. . . .	North line Jackson School- house lot	5.0	129.6	-	90 69	43	46 70	-	-	-	-

TABLE SHOWING THE LOCATION AND COST OF EDGESTONE AND BRICK SIDEWALKS, OF PAVED GUTTERS AND ROADWAY
CONSTRUCTED IN STREETS WHERE EDGESTONE WAS LAID. — *Continued.*

STREET.	SIDE.	FROM.	To.	WIDTH OF SIDEWALK.	MATERIALS.			PAVED GUTTERS.		GRAVEL.		MACADAM.	
					Gravel and Edgestones, Lineal Feet.	Bricks, Sq. Yds.	Cost.	Sq. Yds.	Cost.	Sq. Yds.	Cost.	Sq. Yds.	Cost.
Medford . . .	Southwest	Walnut St. . . .	Boston & Lowell Railroad bridge	8.33	626.7	-	411 94	209	251 90	-	-	-	-
Montrose . . .	Northeast	School St.	Sycamore St.	6.67	912.1	-	673 95	304	278 30	-	-	-	-
Oliver	Northeast	Glen St.	Franklin St.	6.67	478.5	316.8	682 63	159	160 75	-	-	1,230	290 70
Oliver	Southwest	Glen St.	Franklin St.	6.67	390.8	269.0	587 20	130	117 30	-	-	-	-
Orchard	Southwest	Day St.	Cambridge Line	6.67	886.2	-	555 75	295	249 40	-	-	-	-
Orchard	Northeast	Chester St.	Cambridge Line	6.67	539.1	386.0	846 90	180	99 20	1,580	278 70	-	-
Poplar	Northwest	Joy St.	West line Bennett School- house lot	5.0	149.3	-	98 03	50	59 90	-	-	-	-
Summit Ave. . .	Northeast	Vinal Ave.	West line est. of Thompson	7.5	-	130.6	184 75	-	-	-	-	-	-
Tremont	Both	Webster Ave.	Cambridge line	6.67	1,195.2	-	734 01	398	333 25	1,500	256 00	-	-
Washington . . .	North	Medford St.	Tufts St.	11.0	449.5	523.3	1,191 34	150	100 30	-	-	-	-
Webster Ave. . .	East	Everett St.	Fitchburg Railroad . . .	8.25	302.2	-	247 45	-	-	-	-	-	-
Wesley Park . .	Both	Bow St.	Northeasterly	6.67	-	443.9	496 58	-	-	-	-	-	-
Totals . . . . .	. . . . .	. . . . .	. . . . .	. . .	18,227.3	6,218.1	\$20,438 05	6,072	\$5,951 10	5,880	\$977 40	6,650	\$1,580 70
Broadway	Parkway	Arthur St.	Sargent Ave. . . . .	. . .	2,258.8	-	-	-	-	-	-	-	-
Washington . . .	At foot of grass slope	Shawmut St. . . .	Boston & Lowell Railroad	. . .	304.5	-	-	-	-	-	-	-	-

APPENDIX C.

TABLE SHOWING LOCATION AND COST OF STREET IMPROVEMENTS.

NAME OF STREET.	GRAVEL.		MACADAM.	
	Sq. Yds.	Cost.	Sq. Yds.	Cost.
Beacon (Park St. to Kent St.) . . .	—	—	3,500	\$857 50
Bond (Broadway to Jaques St.) . . .	—	—	1,500	346 00
Broadway (Cross St. to Marshall St.)	—	—	20,600	5,272 20
Central (Broadway to Medford St.)	—	—	2,880	800 30
Cross (Pearl St. to Medford St.) . .	—	—	2,600	449 20
Davis Sq.	—	—	1,530	387 50
Day	—	—	2,090	457 70
Francesca Ave.	2,100	\$502 40	—	—
Greene	—	—	1,420	396 60
Grove (Arlington branch railroad to Morrison St.)	—	—	1,100	333 50
Linwood	—	—	6,830	2,507 60
Mason Ave.	500	86 25	—	—
Medford (Somerville Ave. to Fitch- burg Railroad)	1,720	1,408 80	—	—
Middlesex Ave.	—	—	12,000	1,885 10
Moore	—	—	1,940	825 46
Pleasant Ave.	—	—	1,100	278 70
Richdale Ave.	2,230	432 00	—	—
Sycamore (Broadway to Medford St.)	—	—	—	560 50
Tennyson (Medford St. to Forster St.)	—	—	1,200	814 90
Thurston (Medford St. to Richdale Ave.)	820	176 40	—	—
Winslow Ave. (Villa Ave. to Grove St.)	—	—	640	206 95
Totals	7,370	\$2,605 85	60,930	\$16,379 71

APPENDIX D.
STREETS ACCEPTED IN 1892.

NAME OF STREET.	FROM.	TO.	Width in Feet.	Length in Feet.
Crocker	Highland Ave. . .	Crown St. . .	40	528
Essex	Medford St. . . .	Richdale Ave. .	40	232
Francesca Ave. .	Elm St.	Liberty Ave. . .	40	762
Greene	Summer St.	Laurel St. . . .	40	555
Grove	Arlington Br'ch R.R.	Morrison St. . .	40	325
Heath	Temple St.	Bond St.	45	1,043
Hudson	Central St.	Lowell St. . . .	40	1,368
Partridge Ave. . .	Broadway	Vernon St. . . .	40	1,457
Stone Ave.	Union Sq.	Columbus Ave. .	40	676
Summit	Elm St.	Billingham St. .	40	262
Winslow Ave. . . .	Elm St.	Grove St.	40	514

APPENDIX E.

TABLE SHOWING THE LOCATION, LENGTH, AND WIDTH OF PUBLIC AND PRIVATE STREETS.

STREET.	FROM.	To.	Public or Private.	Width in Feet.	LENGTH.	
					Public.	Private.
Adams	Broadway . . .	Medford St. . .	Public.	40	900	-
Adrian	Marion St. . .	Joseph St. . .	Private.	40	-	530
Albion	Central St. . .	Cedar St. . . .	Private.	about 35	-	2,740
Albion	Broadway . . .	Medford Line .	Private.	50	-	100
Aldersey . . .	Walnut St. . .	Vinal Ave. . . .	Public.	40	508	-
Aldrich	Pearl St. . . .	B. & L. R. R. . .	Public.	40	611	-
Alfred	Broadway . . .	Medford Line .	Private.	50	-	50
Allen	Somerville Ave..	Charlestown St.	Private.	25	-	680
Allen Ct. . . .	Park St. . . .	Northwesterly .	Private.	20	-	150
Alpine	Cedar St. . . .	Southeasterly .	Private.	30	-	670
Alston	Cross St. . . .	Shawmut Pl. . .	Private.	40	-	420
Ames	Bartlett St. . .	Robinson St. . .	Public.	40	580	-
Appleton . . .	Willow Ave. . .	Clifton St. . .	Public.	40	510	-
Appleton . . .	Clifton St. . .	Liberty Ave. . .	Private.	40	-	120
Arlington . . .	Franklin St. . .	Lincoln St. . .	Public.	40	440	-
Arnold Ct. . .	Beacon St. . .	Northeasterly .	Private.	10	-	115
Arthur Ct. . .	Linden St. . .	Easterly	Private.	about 10	-	100
Arthur	Broadway . . .	Bonair St. . . .	Public.	40	438	-
Ashland	Summer St. . .	Sartwell Ave. . .	Private.	30	-	470
Asylum Ave. .	Washington St..	McLean Asylum	Private.	about 30	-	2 000
Atherton . . .	Central St. . .	Beech St. . . .	Private.	40	-	264
Auburn Ave. .	Cross St. . . .	B. & L. R. R. . .	Private.	30	-	600
Austin	Broadway . . .	Mystic Ave. . .	Public.	40	680	-
Autumn	Broadway . . .	Bonair St. . . .	Private.	20	-	420
Avon	School St. . . .	Central St. . . .	Private.	40	-	1,360
Avon Pl. . . .	Cross St. . . .	B. & L. R. R. . .	Private.	25	-	150
Ayer Ave. . . .	Morrison Ave. .	Boston Ave. . .	Private.	70	-	1,500
Banks	Elm St.	Summer St. . . .	Private.	40	-	639
Bartlett	Vernon St. . . .	Broadway	Private.	40	-	1,550
Bartlett	Washington St..	Asylum Grounds	Private.	20	-	200
*Bay State Ave.	Broadway . . .	Fosket St. . . .	Private.	40	-	1,197
Beach Ave. . .	Webster Ave. . .	Columbia St. . .	Private.	about 20	-	200
Beacon Pl. . .	Beacon St. . . .	Northeasterly .	Private.	15	-	200
Beacon	Cambridge Line.	Somerville Ave. .	Public.	66	6,100	-
Bean's Ct. . . .	Cutter St. . . .	Southeasterly .	Private.	16	-	100
Bedford	South St. . . .	Cambridge Line .	Private.	30	-	160
Beech	Somerville Ave..	Spring St. . . .	Public.	40	800	-
Belmont	Somerville Ave..	Highland Ave. .	Public.	40	2,175	-
Belmont Pl. . .	Belmont St. . .	Southeasterly .	Private.	25	-	175
Benedict Ave. .	Broadway . . .	Benedict St. . .	Private.	20	-	200
Benedict	Union St. . . .	Austin St. . . .	Public.	40	600	-
Bennett Ct. . .	Bennett St. . . .	Prospect St. . .	Private.	10	-	100
Bennett	Prospect St. . .	Bennett Ct. . .	Private.	25 & 40	-	400
Benton Ave. . .	Summer St. . .	Hudson St. . . .	Private.	40	-	1,210
Berkeley	School St. . . .	Central St. . . .	Public.	40	1,360	-
Berwick	Lawrence St. .	Northwesterly .	Private.	20	-	170
Bigelow	Boston St. . . .	High St.	Private.	50	-	203
Billingham . . .	Broadway . . .	William St. . . .	Private.	40	-	568
Bishop's Pl. . .	Glen St.	Easterly	Private.	10	-	75
Blakeley Ave. .	Winthrop Ave. .	Cross St.	Private.	40	-	630
Bleachery Ct. .	Somerville Ave..	Fitchburg R. R. .	Private.	30	-	450
Bolton	Oak St.	Houghton St. . .	Private.	40	-	500
Bonair	Cross St. . . .	Walnut St. . . .	Public.	40	1,470	-
Bond	Broadway . . .	Jakes St.	Public.	40	640	-
Bonner Ave. . .	Washington St..	Columbus Ave. .	Public.	40	450	-
Boston Ave. . .	Medford Line .	Mystic River . .	Public.	60	910	-

* Proposed

STREET.	FROM.	TO.	Public or Private.	Width in Feet.	LENGTH.	
					Public.	Private.
*Boston Ave. . .	Cedar St. . . .	Medford Line . .	Private.	50	-	1,200
Boston	Washington St. .	Walnut St. . . .	Public.	40 & 45	1,880	-
Bow	Union Sq. . . .	Somerville Ave. .	Public.	60 to 50	1,100	-
Bowdoin	Washington St. .	Southerly	Private.	40	-	370
Bow St. Pl. . .	Bow St.	Northwesterly . .	Private.	40	-	300
Bradford Ave. .	School St. . . .	Southeasterly . .	Private.	40	-	150
Bradley	Pearl St.	Walter St. . . .	Private.	40	-	765
Brastow Ave. . .	Lowell St. . . .	Porter St.	Public.	40	686	-
Broadway . . .	Charlest'n Line .	Arlington Line . .	Public.	60 to 200	17,000	-
Broadway Pl. .	Broadway	Southwesterly . .	Private.	22	-	250
Brook	Glen St.	Cross St.	Public.	40	500	-
Brook	Dover St.	Northerly	Private.	40	-	200
Browning Road .	Sycamore St. . .	Central St. . . .	Private.	40	-	679
Buckingham . .	Beacon St. . . .	Dimick St. . . .	Public.	40	300	-
Burnside Ave. .	Elm St.	Summer St. . . .	Private.	40	-	720
Caldwell Pl. . .	Washington St. .	Southerly	Private.	20	-	210
Calvin	Washington St. .	Beacon St. . . .	Private.	30 & 40	-	644
Cambria	Central St. . . .	Benton Ave. . . .	Private.	40	-	488
Cameron Ave. .	Holland St. . . .	Cambridge Line .	Private.	60	-	1,000
Campbell Pk. . .	Meacham St. . .	Northerly	Private.	49	-	520
Campbell Pk. . .	Kingston St. . .	Westerly	Private.	40	-	500
Campbell Pk. Pl.	Campbell Pk. . .	Arlington Br. R.R.	Private.	20	-	84
Carlton	Somerville Ave. .	Lake St.	Public.	40	300	-
Carver	Porter St.	Northwesterly . .	Private.	40	-	156
Cedar	Elm St.	Broadway	Public.	40	4,150	-
Cedar Ave. . . .	Cedar St.	Linden Ave. . . .	Private.	22	-	290
Cedar St. Pl. . .	Murdock St. . .	Southwesterly . .	Private.	20	-	220
Central	Somerville Ave. .	Broadway	Public.	33, 40, 45	4,700	-
Centre	Albion St. . . .	B. & L. R. R. . .	Private.	35	-	200
Chandler	Park Ave.	Broadway	Public.	40	1,232	-
Chapel	Elm St.	Chandler Ct. . . .	Public.	40	273	-
Chapel Ct. . . .	Sycamore St. . .	Northwesterly . .	Private.	12	-	130
Charles	Washington St. .	Ayslum Grounds .	Private.	30	-	200
Charlestown . .	Merriam St. . . .	Allen St.	Private.	15	-	440
Charnwood Road	Willow Ave. . . .	Gordonia Road . .	Private.	40	-	588
Chauncey Ave. .	Broadway	Mystic Ave. . . .	Public.	50	1,320	-
*Chelsea	Mystic Ave. . . .	Melrose St. . . .	Private.	50	-	1,390
Cherry	Elm St.	Highland Ave. . .	Public.	45	1,450	-
Chester	Elm St.	Cambridge Line .	Public.	40	850	-
Chester Ave. . .	Medford St. . . .	Angle	Public.	about 22	220	-
Chester Ave. . .	Angle	Cross St.	Private.	20	-	445
Chester Pl. . . .	Chester St. . . .	Northwesterly . .	Private.	40	-	200
Chestnut	Poplar St. . . .	Southeasterly . .	Private.	40	-	540
Church	Summer St. . . .	Lake St.	Public.	40	900	-
Church St. Pl. .	Church St. . . .	Northwesterly . .	Private.	25	-	170
Claremon	Holland St. . . .	Cambridge Line .	Private.	40	-	560
Clarendon Ave .	Broadway	Cambridge Line .	Private.	40	-	1,210
Clark	Newton St. . . .	Northwesterly . .	Private.	35	-	450
Clifton	Appleton St. . .	Morrison St. . . .	Public.	40	240	-
Clifton	Morrison St. . .	Arlington Br. R.R.	Private.	40	-	220
Clyde	Cedar St.	Murdock St. . . .	Private.	30	-	600
College Ave. . .	Broadway	Medford Line . .	Public.	50	1,700	-
Columbia	Glass House Ct. .	Cambridge Line .	Private.	40	-	550
Columbia Ct. . .	Columbia St. . .	Webster Ave. . . .	Private.	9	-	150
Columbus Ave .	Land of Clark . .	Walnut St. . . .	Public.	40	1,000	-
Columbus Ct. . .	Washington St. .	Northerly	Private.	30	-	100
Concord Ave. . .	Prospect St. . . .	Leon St.	Public.	40	1,500	-
Concord Ave. . .	Leon St.	Beacon St.	Private.	30 & 40	-	470
Congress Pl. . .	Linwood St. . . .	Southwesterly . .	Private.	16	-	200
Conlon Ct. . . .	Columbia St. . .	Easterly	Private.	20	-	200
Conwell	Highland Ave. . .	Southwesterly . .	Private.	35	-	360
Conwell Ave. . .	Curtis St.	Westerly	Private.	40	-	600

* Proposed.

STREET.	FROM.	TO.	Public or Private.	Width in Feet.	LENGTH.	
					Public	Private.
Cook	Marion St. . . .	West So. Wyatt St.	Private.	40	-	450
Cooney	Beacon St. . . .	Line St.	Private.	26	-	220
Cottage Ave . . .	Russell St. . . .	Chester St. . . .	Public.	40	500	-
Cottage Pl. . . .	Washington St. .	Northwesterly . .	Private.	about 11	-	150
Craigie	Somerville Ave. .	Summer St. . . .	Public.	50	1,250	-
Crescent	Washington St. .	Pearl St.	Private.	30 to 38	-	650
Crocker	Highland Ave. . .	Crown St.	Public.	40	523	-
Cross	Mystic Ave. . . .	Medford St. . . .	Public.	40 & 45	3,750	-
Crown	Porter St.	Lowell St.	Private.	30	-	700
Curtis	Broadway	Medford Line . . .	Public.	40	2,300	-
Cutler	Lawrence St. . . .	Northwesterly . .	Private.	20	-	170
Cutter	Broadway	Webster St. . . .	Public.	40	740	-
Cutter Ave. . . .	Summer St. . . .	Highland Ave. . .	Private.	40	-	450
Cypress	Central St. . . .	Beech St.	Private.	40	-	262
Dana	Bonair St.	Pearl St.	Public.	40	690	-
Dane	Somerville Ave. .	Washington St. . .	Public.	40	1,270	-
Dane Ct.	Dane St.	Easterly	Private.	30	-	600
Dartmouth	Medford St. . . .	Broadway	Public.	40	1,450	-
Day	Elm St.	Cambridge Line . .	Public.	40	941	-
*Dean Ave.	Morrison Ave. . .	Boston Ave. . . .	Private.	40	-	1,145
Delaware	Aldrich St. . . .	Pearl St.	Private.	40	-	450
Dell	Glen St.	Tufts St.	Private.	40	-	465
Derby	Temple St.	Wheatland St. . .	Private.	40	-	1,032
Dexter	Broadway	Medford Line . . .	Private.	50	-	25
Dickinson	Springfield St. .	Beacon St.	Public.	40	770	-
Dimick	Concord Ave. . . .	Calvin St.	Private.	40	-	860
Distillhouse . . .	South St.	Cambridge Line . .	Private.	35	-	150
Dix Pl.	Linwood St. . . .	Southwesterly . . .	Private.	10	-	100
Dover	Elm St.	Cambridge Line . .	Public.	40	940	-
Dow	North St.	Easterly	Private.	40	-	645
*Downer Pl. . . .	Downer St.	B. & L. R. R. . . .	Private.	20	-	125
*Downer	Nashua St.	Southeasterly . . .	Private.	20	-	120
Durham	Beacon St.	Hanson St.	Private.	40	-	450
Earle	South St.	Fitchburg R. R. . .	Private.	30	-	500
Eastman Pl. . . .	Highland Ave. . .	Southwesterly . . .	Private.	40	-	300
East Newton . . .	Prospect St. . . .	Webster Ave. . . .	Public.	25	470	-
*Edgeworth	Mystic Ave. . . .	Melrose St.	Private.	50	-	1,380
Edmands	Broadway	Southwesterly . . .	Private.	40	-	440
Eliot	Vine St.	Park St.	Public.	40	260	-
Ellsworth	Cross St.	Rush St.	Public.	40	210	-
Elm Ct.	Villa Ave.	Northwesterly . . .	Private.	18	-	70
Elm Pl.	Harvard St. . . .	Easterly & west'ly	Private.	30	-	400
Elm	Somerville Ave. .	Medford Line . . .	Public.	60+	7,700	-
Elmwood	Holland St. . . .	Cambridge Line . .	Private.	40	-	970
Elston	Elm St.	Summer St.	Public.	40	396	-
Emerson	Everett St.	Newton St.	Private.	30	-	170
Emery	Fitchburg R. R. .	South St.	Private.	30	-	530
Endicott Ave. . . .	Broadway	Southwesterly . . .	Private.	40	-	800
Essex	Medford St. . . .	Richdale Ave. . . .	Public.	40	232	-
Everett	Webster Ave. . . .	Newton St.	Private.	30	-	350
Everett Ave. . . .	Cross St.	Dana St.	Public.	40	800	-
Evergreen Ave. . .	Marshall St. . . .	Sycamore St. . . .	Public.	40	1,320	-
Evergreen Sq. . .	Porter St.	Southeasterly . . .	Private.	8	-	200
Fairlee	Cherry St.	Northwesterly . . .	Private.	30	-	150
Fairmount Ave. . .	Curtis St.	Northwesterly . . .	Private.	40	-	700
Fanning Ave. . . .	Highland Ave. . .	Lexington Ave. . .	Private.	50	-	375
Farragut Ave. . . .	Broadway	Southwesterly . . .	Private.	40	-	840
Fenwick	Broadway	Heath St.	Private.	40	-	340
Fisk Ave.	Hinckley St. . . .	Lowell St.	Private.	20 & 25	-	460
Fitchburg Ct. . . .	Fitchburg St. . . .	Southeasterly . . .	Private.	10	-	225

*Proposed.

STREET.	FROM.	TO.	Public. or Private.	Width in Feet.	LENGTH.	
					Public.	Private.
Fitchburg . . .	Linwood St. . .	B. & L. R. R. . .	Private.	40	-	400
Fitchburg . . .	Linden St. . .	Easterly . . .	Private.	20	-	300
Flint Ave. . . .	Flint St. . . .	Northerly . . .	Private.	40	-	200
Flint	Franklin St. . .	Aldrich St. . .	Public.	40	1,773	-
Florence	Washington St. .	Perkins St. . .	Public.	40	1,280	-
Folger	Broadway . . .	Fairmount Ave. .	Private.	40	-	280
Forest	Beacon St. . .	Cambridge Line .	Public.	40	150	-
Forster	Sycamore St. . .	Central St. . .	Private.	30	-	430
*Fosket	Willow Ave. . .	Liberty Ave. . .	Private.	40	-	670
Fountain Ave. .	Cross St. . . .	Glen St.	Private.	30	-	550
Francesca Ave. .	Elm St.	Liberty Ave. . .	Public.	40	762	-
Francis	Porter St. . . .	Conwell St. . .	Private.	30	-	180
Franklin Ave. . .	Washington St. .	Franklin St. . .	Private.	20	-	500
Franklin Ct. . .	Somerville Ave. .	B. & L. R. R. . .	Private.	-	-	200
Franklin Pl. . .	Franklin St. . .	Southeasterly . .	Private.	15	-	100
Franklin	Broadway . . .	Washington St. .	Public.	40+	2,230	-
*Frederick Ave. .	Willow Ave. . .	Cedar St. . . .	Private.	45	-	1,360
Fremont	Main St.	Northeasterly . .	Private.	40	-	600
Fremont Ave. . .	Parker St. . . .	Easterly & west'y	Private.	30	-	235
Frost Ave. . . .	Somerville Ave. .	Dane St.	Private.	35	-	550
Garden Ct. . . .	Somerville Ave. .	Fitchburg R. R. .	Private.	25	-	370
Garfield Ave. . .	Broadway . . .	Mystic Ave. . . .	Private.	40	-	1,150
Garrison Ave. . .	Broadway . . .	Southwesterly . .	Private.	40	-	850
George	Broadway . . .	Lincoln Ave. . .	Private.	40	-	350
Gibbens	Central St. . .	Benton Ave. . .	Public.	40	492	-
Giles Pl.	Walnut St. . . .	Northwesterly . .	Private.	32.71	-	168
Gill's Ct.	Franklin St. . .	Westerly	Private.	10	-	100
Gilman	Cross St. . . .	Walnut St. . . .	Public.	40	1,430	-
Gilman Terrace .	Pearl St.	Northeasterly . .	Private.	40	-	360
Glass House Ct. .	Webster Ave. . .	Easterly	Private.	40	-	200
Glen	Broadway . . .	Tufts St.	Public.	40	2,300	-
*Gordonia Road .	Summer St. . .	Charnwood Road .	Private.	40	-	263
Gorham	Holland St. . .	Howard St. . . .	Public.	40	763	-
Gould Ave. . . .	Porter St. . . .	Southeasterly . .	Private.	16	-	156
Grand View Ave. .	Walnut St. . . .	Vinal Ave. . . .	Public.	40	470	-
Granite	Somerville Ave. .	Osgood St. . . .	Private.	40	-	400
Grant	Broadway . . .	Mystic Ave. . . .	Private.	40	-	1,350
Greene	Summer St. . .	Laurel St. . . .	Public.	40	555	-
Greenville	Medford St. . .	High St.	Public.	40	660	-
Grove	Elm St.	Morrison St. . .	Public.	40	985	-
Hadley Ct. . . .	Franklin St. . .	Westerly	Private.	20	-	150
Hall	Cedar St. . . .	Cherry St. . . .	Private.	30	-	350
Hall Ave.	Elm St.	Liberty Ave. . .	Private.	40	-	910
Hamlet	Highland Ave. .	Southwesterly . .	Private.	30	-	40
Hammond	Dickinson St. .	Concord Ave. . .	Private.	40	-	273
Hancock	Elm St.	Summer St. . . .	Private.	40	-	770
Hanson Ave. . . .	Hanson St. . . .	Easterly	Private.	30	-	252
Hanson	Washington St. .	Vine St.	Private.	35	-	750
Harding	South St. . . .	Cambridge Line .	Private.	30	-	115
Harris	Beacon St. . . .	Cambridge Line .	Private.	35	-	150
Harrison	Ivaloo St. . . .	Mondamin Ct. . .	Public.	40	335	-
Harrison	Mondamin Ct. .	Kent St.	Private.	40	-	335
Harrison	Elmwood St. . .	Southeasterly . .	Private.	40	-	210
Harvard	Summer St. . .	Beech St. . . .	Public.	40	650	-
Harvard Pl. . . .	Harvard St. . .	Easterly & west'y	Private.	35	-	400
Hathorn	Broadway . . .	Arlington St. . .	Public.	40	330	-
Hawkins	Somerville Ave. .	Washington St. .	Public.	40	330	-
Hawthorne	Willow Ave. . .	Northwesterly . .	Private.	30	-	700
Heath	Temple St. . . .	Bond St.	Public.	45	1,043	-
Heath	Bond St.	Moreland St. . .	Private.	45	-	750
Henderson	Richardson St. .	B. & L. R. R. . .	Private.	20	-	535

*Proposed.

STREET.	FROM.	To.	Public or Private.	Width in Feet.	LENGTH.	
					Public.	Private.
Hennessey Ct. . .	Medford St. . .	Fisk Ave. . . .	Private.	20	-	250'
Henry Ave. . . .	Highland Ave. . .	Lexington Ave. . .	Private.	40	-	290'
Herbert	Chester St. . . .	Day St.	Public.	49	360	-
Hersey	Berkeley St. . . .	Oxford St.	Private.	40	-	230'
High	Boston St.	Munroe St.	Private.	50	-	1,100
Highland Ave. . .	Medford St. . . .	Davis Sq.	Public.	60	9,100	-
Hillside Ave. . .	Pearl St.	Southwesterly . .	Private.	30	-	150
Hillside Pk. . . .	Walnut St.	Northwesterly . .	Private.	40	-	245
Hinckley	Broadway	Lawrence St. . . .	Private.	30	-	430
Hodgdon Pl. . . .	Dane Ct.	Northeasterly . . .	Private.	about 20	-	150
Holland	Davis Sq.	Broadway	Public.	60	2,650	-
Holt Ct.	Wyatt St.	Westerly	Private.	10	-	70
Holt's Ave. . . .	Oak St.	Southeasterly . . .	Private.	10	-	100
Homer Sq.	Bonner Ave. . . .	Northwesterly . .	Private.	30+	-	200
Horace	South St.	Fitchburg R. R. . .	Private.	30	-	510
Houghton	Prospect St. . . .	Springfield St. . .	Private.	40	-	750
Howard	Thorndike St. . . .	Gorham St.	Private.	40	-	430
Howard	Whipple St. . . .	Willow Ave.	Private.	30	-	255
Howe	Marshall St. . . .	School St.	Public.	40	445	-
Hudson	Central St.	Lowell St.	Public.	40	1,368	-
Hudson	Lowell St.	Cedar St.	Private.	40	-	1,380
Hunting	South St.	Cambridge Line . .	Private.	30	-	125
Irving	Holland St.	Broadway	Public.	40	1,180	-
Ivaloo	Beacon St.	Park St.	Public.	40	650	-
Jackson	Medford St.	Maple St.	Private.	30	-	150
James	Pearl St.	Veazie St.	Public.	40	320	-
Jaques	Chauncey Ave. . .	Bond St.	Public.	40 & 45	2,250	-
*Jasper	Pearl St.	Gilman St.	Private.	40	-	300
Jay	Holland St.	Howard St.	Private.	40	-	525
Jenny Lind Ave. .	Vernon St.	Medford St.	Public.	40	910	-
Jenny Lind Ave. .	Medford St.	Broadway	Private.	40	-	590
Jerome Ct.	Sycamore St. . . .	Jerome St.	Private.	10	-	150
Jerome	Montrose St. . . .	Jerome Ct.	Private.	20	-	125
Joseph	Newton St.	Northwesterly . .	Private.	40	-	380
Josephine Ave. .	Morrison Ave. . .	Broadway	Private.	45	-	1,715
Joy	Washington St. . .	Poplar St.	Private.	30	-	1,150
Joy St. Pl. . . .	Joy St.	Southwesterly . .	Private.	30	-	175
Kensington Ave. .	Broadway	Blakeley Ave. . . .	Private.	40	-	440
Kent Ct.	Kent St.	Northerly	Private.	about 25	-	420
Kent	Somerville Ave. .	Beacon St.	Private.	25 & 40	-	740
Kenwood	Elm St.	Billingham St. . .	Private.	40	-	322
Kidder Ave. . . .	Elm St.	Willow Ave.	Private.	40	-	1,280
Kingman Ct. . . .	Washington St. . .	Fitchburg R. R. . .	Private.	25	-	400
Kingston	Meacham St. . . .	Campbell Pk. . . .	Private.	40	-	320
Knapp	School St.	Granite St.	Private.	40	-	350
Knowlton	Oliver St.	Tufts St.	Private.	40	-	925
Lake	Hawkins St.	Church St.	Public.	40	860	-
Lamson Ct.	Linwood St.	Poplar St.	Private.	20	-	370
Landers	School St.	Westerly	Private.	40	-	280
Laurel	Somerville Ave. . .	Summer St.	Public.	40	940	-
Lawrence	Hinckley St. . . .	B. & L. R. R. . . .	Private.	35	-	650
Lawrence	Boston Ave.	Southwesterly . .	Private.	35	-	710
Lawson Terrace . .	Putnam St.	Easterly	Private.	5	-	200
Lee	Medford St.	Richdale Ave. . . .	Private.	40	-	385
Leland	Washington St. . .	Northeasterly . .	Private.	40	-	250
Leon	Concord Ave. . . .	Dickinson St. . . .	Private.	40	-	150
Leonard Pl. . . .	Joy St.	Northeasterly . .	Private.	13+	-	98
Lesley Ave. . . .	Highland Ave. . .	Lexington Ave. . .	Private.	40	-	333
Leslie Pl.	Highland Ave. . .	Easterly	Private.	12	-	75

* Proposed.

STREET.	FROM.	TO.	Public or Private.	Width in Feet.	LENGTH.	
					Public.	Private.
Lester Pl. . . .	Meacham St. . .	Northwesterly . .	Private.	20	-	190
Lexington Ave. .	Willow Ave. . .	Cedar St. . . .	Private.	50	-	1,360
Liberty Ave. . .	Appleton St. . .	Broadway . . .	Private.	40	-	1,495
Lincoln Ave. . .	Lincoln St. . . .	Mt. Vernon St. .	Private.	40	-	450
Lincoln Pl. . . .	Lincoln Ave. . .	Northerly	Private.	9	-	120
Lincoln	Broadway. . . .	Perkins St. . . .	Public.	40	550	-
Linden	Somerville Ave. .	Fitchburg R. R. .	Private.	30	-	705
Linden Ave. . . .	Elm St.	Summer St. . . .	Public.	45	1,050	-
Linden Ave. . . .	Summer St. . . .	Northeasterly . .	Private.	45	-	250
Linden Pl.	Linden Ave. . . .	Northwesterly . .	Private.	20	-	160
Line	Washington St. .	Cambridge Line .	Private.	33	-	1,750
Linehan Ct. . . .	Linwood St. . . .	Chestnut St. . .	Private.	about 15	-	200
Linwood Pl. . . .	Linwood St. . . .	Southwesterly . .	Private.	about 12	-	150
Linwood	Somerville Ave. .	Washington St. .	Public.	50	2,050	-
London	Linwood St. . . .	B. & L. R. R. . .	Private.	40	-	340
Loring	Somerville Ave. .	Northeasterly . .	Private.	40	-	400
Louisburg Pl. . .	Autumn St. . . .	Easterly	Private.	13	-	90
Lowell	Somerville Ave. .	Albion St.	Private.	33+	-	2,580
Lowell	B. & L. R. R. . .	Medford St. . . .	Private.	33+	-	1,200
*Lowden	Broadway	Fosket St.	Private.	40	-	1,265
Madison	School St.	Sycamore St. . . .	Public.	40	891	-
Main	Broadway	Medford Line . .	Public.	50	950	-
*Malden	Mystic Ave. . . .	Melrose St. . . .	Private.	50	-	1,360
*Mallet	Willow Ave. . . .	Liberty Ave. . . .	Private.	40	-	580
Malloy Ct.	Somerville Ave. .	Merriam St. . . .	Private.	30 & 15	-	520
Mansfield	Somerville Ave. .	Washington St. .	Private.	40	-	730
Maple Ave.	School St.	Southeasterly . .	Private.	40	-	300
Maple	Poplar St.	Jackson St. . . .	Private.	30	-	470
Maple Pl.	Marshall St. . . .	Maple Ave.	Private.	5	-	125
Marion	Concord Ave. . .	Adrian St.	Private.	40	-	170
Marshall	Broadway	Pearl St.	Public.	40	1,650	-
Mason Ave.	Orchard St. . . .	Cambridge Line .	Private.	35	-	220
May Pl.	Hawkins St. . . .	Easterly	Private.	12	-	160
McGregor Pl. . . .	Wigglesworth St.	Walnut St.	Private.	about 10	-	250
Meacham	Orchard St. . . .	Cambridge Line .	Public.	40	160	-
Meacham	Arlington B. R. R.	Orchard St. . . .	Private.	40	-	600
Meacham	Mt. Vernon Ave. .	Medford Line . .	Private.	40	-	800
Mead	Cameron Ave. . .	Moore St.	Private.	40	-	340
Medford	Cambridge Line .	Medford Line . .	Public.	50 & 55	10,100	-
Melrose	Mystic Ave. . . .	Middlesex Ave. .	Private.	50	-	2,310
Melvin	Bonair St.	Northeasterly . .	Private.	35	-	150
Melvin	Broadway	Southwesterly . .	Private.	40	-	317
Merriam	Somerville Ave. .	Charlestown St. .	Private.	30	-	500
Middlesex Ave. . .	Mystic Ave. . . .	Medford Line . .	Public.	60	3,400	-
Milk St. Pl. . . .	Somerville Ave. .	Southwesterly . .	Private.	about 30	-	100
Miller	Sacramento St. .	Northwesterly . .	Private.	33	-	350
Mills	Walnut St.	Sargent Ave. . . .	Public.	40	560	-
Miner	Vernon St.	Ames St.	Private.	40	-	245
Mondamin Ct. . . .	Ivaloo St.	Harrison St. . . .	Private.	25	-	250
Montgomery Ave. .	Broadway	Wellington Ave. .	Public.	40	265	-
Montrose Ct. . . .	Montrose St. . . .	B. & L. R. R. . .	Private.	12	-	110
Montrose	School St.	Sycamore St. . . .	Public.	40	886	-
Moore	Holland St. . . .	Mead St.	Public.	40	695	-
Moreland	Main St.	Meacham St. . . .	Private.	40	-	700
Morgan	Beacon St.	Park St.	Public.	40	-	350
Morrison Ave. . . .	Willow Ave. . . .	Cedar St.	Private.	50	-	1,366
Morrison Pl. . . .	Morrison St. . . .	Northerly & east'ly	Private.	15 & 20	-	370
Morrison	Willow Ave. . . .	Elm St.	Public.	40	1,700	-
Mortimer Pl. . . .	Marshall St. . . .	Southeasterly . .	Private.	20	-	150
Morton	Glen St.	Knowlton St. . . .	Private.	40	-	285
Mossland	Somerville Ave. .	Elm St.	Public.	40	350	-
Mountain Ave. . . .	Linden Ave. . . .	Porter St.	Private.	22	-	310

* Proposed.

STREET.	FROM.	TO.	Public or Private.	Width in Feet.	LENGTH.	
					Public.	Private.
Mousal Pl. . . .	North Union St.	B. & M. R. R. . .	Private.	20	-	200 ¹
Mt. Pleasant Ave.	Curtis St. . . .	Northwesterly . .	Private.	40	-	700 ¹
Mt. Pleasant Ct.	Perkins St. . . .	Southwesterly . .	Private.	40	-	260 ¹
Mt. Pleasant . .	Broadway	Perkins St. . . .	Public.	33	570	-
Mt. Vernon Ave.	Main St.	Meacham St. . . .	Private.	50	-	800 ¹
Mt. Vernon . . .	Washington St..	Broadway	Public.	40 & 50	1,640	-
Munroe	Walnut St. . . .	High St.	Private.	40	-	400
Murdock	Cedar St.	Clyde St.	Private.	30	-	900
Murray	Washington St..	Southerly	Private.	30	-	250
Museum	Beacon St. . . .	Cambridge Line .	Private.	40	-	170
Myrtle Ct. . . .	Myrtle St. . . .	Easterly	Private.	10	-	100
Myrtle	Washington St..	Perkins St. . . .	Public.	40	1,400	-
Mystic Ave. . . .	Charlestown Line	Medford Line . .	Public.	60 & 66	7,250	-
Mystic	Washington St..	Somerville Ave. .	Public.	40	360	-
Mystic	Benedict St. . .	Mystic Ave. . . .	Private.	40	-	330
Nashua	Richardson St. .	B. & L. R. R. . .	Private.	35	-	640
Nevada Ave. . .	Village St. . . .	Hanson St. . . .	Private.	20	-	200
Newberne	Appleton St. . .	Morrison St. . . .	Private.	40	-	200
Newbury	Holland St. . . .	Cambridge Line .	Public.	40	1,250	-
Newman Pl. . . .	Cedar St.	Southeasterly . .	Private.	10+	-	100
Newton Pl. . . .	Newton St. . . .	Easterly	Private.	about 10	-	100
Newton	Webster Ave. . .	Concord Ave. . .	Public.	40+	650	-
Norfolk	Webster Ave. . .	Cambridge Line .	Public.	40	200	-
North	Broadway	Medford Line . .	Public.	40	2,550	-
North Union . .	Mystic Ave. . . .	Northeasterly . .	Private.	30	-	600
Norton	Nashua St. . . .	Southeasterly . .	Private.	20	-	200
Norwood Ave. .	Broadway	Medford St. . . .	Public.	40	350	-
Oak	Prospect St. . .	Angle	Public.	40	670	-
Oak	Angle	Cambridge Line .	Private.	30	-	530
Oak St. Pl. . . .	Oak St.	Northerly	Private.	4	-	85
Oakland Ave. . .	Marshall St. . .	School St.	Public.	40	440	-
Olive Ave. . . .	Linden Ave. . . .	Southeasterly . .	Private.	25	-	155
Olive Sq.	Lake St.	Southerly	Private.	about 15	-	100
Oliver	Franklin St. . .	Cross St.	Public.	40	1,050	-
Orchard	Cambridge Line	Meacham St. . . .	Public.	40	1,625	-
Osgood	Granite St. . . .	Easterly & west'y	Private.	40	-	450
Otis	Cross St.	Wigglesworth St.	Public.	40	1,200	-
Oxford	School St. . . .	Central St.	Private.	30+	-	1,330
Oxford	Beacon St. . . .	Cambridge Line .	Public.	50	100	-
Packard Ave. . .	Broadway	Medford Line . .	Private.	60	-	2,000
Palmer Ave. . . .	Franklin St. . . .	Northwesterly . .	Private.	20	-	200
Park Ave.	Elm St.	Wallace St. . . .	Public.	40	450	-
Park Pl.	Laurel St. . . .	Easterly & north'y	Private.	30 & 20	-	350
Park	Somerville Ave.	Beacon St.	Public.	50	1,300	-
Parker Pl. . . .	Porter St.	Northwesterly . .	Private.	20	-	150
Parker	Washington St..	Fremont Ave. . .	Private.	35	-	200
Partridge Ave. .	Vernon St. . . .	Broadway	Public.	40	1,457	-
Patten Ct. . . .	Cutter St. . . .	Southeasterly . .	Private.	8	-	100
Pauline	Broadway	Holland St. . . .	Private.	40	-	775
Pearl	Crescent St. . .	Medford St. . . .	Public.	40 & 50	4,750	-
Pearl St. Pl. . .	Pearl St.	Northeasterly . .	Private.	20	-	200
*Pearson Ave. .	Morrison Ave. .	Boston Ave. . . .	Private.	45	-	1,300
Pembroke Ct. . .	Pembroke St. . .	Southwesterly . .	Private.	25	-	130
Pembroke	Central St. . . .	Sycamore St. . . .	Private.	40	-	440
Perkins Pl. . . .	Perkins St. . . .	Northeasterly . .	Private.	20	-	200
Perkins	Franklin St. . .	Charlestown Line.	Public.	40	1,350	-
Pinckney Pl. . .	Pinckney St. . .	Southeasterly . .	Private.	24	-	125
Pinckney	Washington St..	Perkins St. . . .	Public.	40	1,170	-
Pitman	Beech St.	Belmont St. . . .	Private.	30	-	800
Pleasant Ave. .	Walnut St. . . .	Vinal Ave.	Public.	40	470	-

*Proposed.

STREET.	FROM.	TO.	Public or Private.	Width in Feet.	LENGTH.	
					Public.	Private.
Poplar Ct. . . .	Poplar St. . . .	Southeasterly . .	Private.	10	-	80
Poplar	Somerville Ave.	Joy St.	Private.	30 & 35	-	650
Porter Ave. . . .	Porter St. . . .	Northwesterly . .	Private.	20	-	220
Porter Pl. . . .	Porter St. . . .	Northwesterly . .	Private.	20	-	195
Porter	Elm St.	Summer St. . . .	Public.	45	1,150	-
Porter	Summer St. . . .	Highland Ave. . .	Private.	45	-	830
Prescott	Summer St. . . .	Highland Ave. . .	Public.	50	1,050	-
Preston	School St. . . .	Summer St. . . .	Public.	40	800	-
Professors' Row	College Ave. . . .	Curtis St.	Private.	40	-	1,900
Prospect	Washington St. .	Cambridge Line .	Public.	40 & 50	2,050	-
Prospect Hill Av.	Medford St. . . .	High St.	Public.	40	450	-
Prospect Pl. . . .	Prospect St. . . .	E. Newton St. . .	Private.	20	-	130
Putnam	Summer St. . . .	Highland Ave. . .	Public.	50	1,240	-
Quincy	Somerville Ave.	Summer St. . . .	Public.	40	700	-
Randolph Pl. . . .	Cross St.	Westerly	Private.	15	-	244
Raymond Ave. . .	Curtis St.	North St.	Public.	40	1,345	-
Record's Pl. . . .	Broadway	Southwesterly . .	Private.	10	-	110
Reed's Ct. . . .	Oliver St.	Southwesterly . .	Private.	20	-	105
Remick Ct. . . .	Cutter St.	Southeasterly . .	Private.	10	-	100
Richardson	Lowell St.	Lawrence St. . .	Private.	35	-	480
Richdale Ave. . .	School St.	Sycamore St. . . .	Public.	40	875	-
Richmond Hi'h'ds	Madison St. . . .	Southerly	Private.	30	-	150
Roberts	Lawrence St. . .	Northwesterly . .	Private.	20	-	170
Robinson	Central St. . . .	Bartlett St. . . .	Private.	40	-	645
Rogers Ave. . . .	Morrison Ave. . .	Broadway	Private.	45	-	1,700
Roseland	Beacon St.	Cambridge Line .	Public.	40	100	-
Rossmore	Somerville Ave.	Washington St. . .	Private.	40	-	525
Rush	Broadway	Flint St.	Public.	40	1,400	-
Russell	Elm St.	Cambridge Line .	Public.	40	700	-
Sacramento . . .	Somerville Ave.	Cambridge Line .	Private.	40	-	600
Sanborn Ave. . . .	Warren Ave. . . .	Walnut St.	Public.	40	280	-
Sargent Ave. . . .	Broadway	Mills St.	Public.	40	522	-
Sartwell Ave. . . .	Cedar St.	Cherry St.	Private.	35	-	400
School	Somerville Ave.	Broadway	Public.	40 & 50	4,370	-
Sellon Pl. . . .	Marshall St. . . .	Northwesterly . .	Private.	12	-	120
Sewall Ct. . . .	Sewall St.	Southwesterly . .	Private.	25	-	190
Sewall	Grant St.	Temple St.	Private.	40	-	650
Shawmut Pl. . . .	Shawmut St. . . .	Alston St.	Private.	30	-	200
Shawmut	Washington St. .	Cross St.	Public.	40	550	-
Shedd	Somerville Ave.	Charlestown St. .	Private.	40	-	310
Sherman Pl. . . .	Sargent Ave. . . .	Marshall St. . . .	Private.	10	-	250
Sherman	Somerville Ave.	Frost Ave.	Private.	35	-	270
Sibley Ct. . . .	Cutter St.	Northwesterly . .	Private.	10	-	100
Sibley Pl. . . .	Cutter St.	Northwesterly . .	Private.	10	-	100
Simpson Ave. . . .	Broadway	Holland St.	Private.	40	-	825
Skehan	Dane St.	Durham St.	Private.	30	-	720
Smith Ave. . . .	Beacon St.	Line St.	Private.	25+	-	200
Snow Pl.	Belmont St. . . .	Easterly	Private.	25 & 30	-	270
Somerville Ave. .	E. Camb. Line.	N. Camb. Line . .	Public.	70 & 75	11,100	-
South	Medford St. . . .	Westerly	Private.	30	-	940
*Southwick Ave.	Morrison Ave. . .	Boston Ave. . . .	Private.	40	-	990
Spring Ct. . . .	Somerville Ave.	Westerly	Private.	20	-	200
Spring	Somerville Ave.	Summer St.	Public.	40	1,200	-
Springfield . . .	Concord Ave. . .	Cambridge Line .	Public.	40	800	-
Stickney Ave. . .	Marshall St. . . .	School St.	Private.	40	-	450
St. James Ave. . .	Elm St.	Summer St.	Public.	40	488	-
Stone Ave. . . .	Union Sq.	Columbus Ave. . .	Public.	40	676	-
Stone Pl.	Stone Ave.	Southeasterly . .	Private.	30	-	145
Summer	Bow St.	Elm St.	Public.	45	7,700	-
Summit Ave. . . .	Walnut St.	Vinal Ave.	Public.	45	470	-

*Proposed.

STREET.	FROM.	TO.	Public or Private.	Width in Feet.	LENGTH.	
					Public.	Private.
Summit	Elm St. . . .	Billingham St. . . .	Public.	40	262	-
*Sumner	Lawrence St. . . .	Northwesterly	Private.	20	-	175
Sunnyside Ave. . . .	Walnut St. . . .	Wigglesworth St. . . .	Private.	35	-	250
Sycamore	Broadway	Medford St. . . .	Public.	45	1,250	-
Sycamore	Medford St. . . .	Highland Ave. . . .	Private.	33 & 40	-	1,350
Sydney	Wheatland St. . . .	Temple St. . . .	Private.	40	-	925
Taunton	So. Wyatt St. . . .	Marion St. . . .	Private.	30 & 20	-	260
Taylor's Pl. . . .	Somerville Ave. . . .	Southerly	Private.	15	-	200
Taylor	Mystic Ave. . . .	Sydney St. . . .	Private.	40	-	310
Temple	Broadway	Mystic Ave. . . .	Public.	66	1,540	-
Tenney Ct. . . .	Mystic Ave. . . .	Northeasterly	Private.	30	-	400
Tennyson	Forster St. . . .	Medford St. . . .	Public.	40	469	-
Tennyson	Medford St. . . .	Pembroke St. . . .	Private.	40	-	400
Thorndike	Holland St. . . .	Campbell Park	Private.	40	-	580
Thorpe Pl. . . .	Highland Ave. . . .	Southwesterly	Private.	30	-	450
Thurston	Broadway	Richdale Ave. . . .	Public.	40	1,660	-
Tower Ct. . . .	Tyler St. . . .	Northeasterly	Private.	25	-	150
*Tower	Crown St. . . .	Highland Ave. . . .	Private.	40	-	550
Tremont Pl. . . .	Tremont St. . . .	Southeasterly	Private.	about 10	-	75
Tremont	Webster Ave. . . .	Cambridge Line	Public.	40	589	-
Trull	Vernon St. . . .	Medford St. . . .	Private.	40	-	1,050
Trull Lane	Highland Ave. . . .	Oxford St. . . .	Private.	15	-	200
Tube Works Ct. . . .	Somerville Ave. . . .	Southwesterly	Private.	20	-	150
Tufts	Washington St. . . .	Cross St. . . .	Public.	40	940	-
Tyler	Vine St. . . .	Dane St. . . .	Public.	40	404	-
Union	Broadway	Mystic Ave. . . .	Public.	40	330	-
Union Pl. . . .	Linwood St. . . .	Southwesterly	Private.	10	-	100
Veazie	Walnut St. . . .	Bradley St. . . .	Private.	40	-	650
Vernon	Central St. . . .	Jenny Lind Ave. . . .	Public.	40	740	-
Vernon	Jenny Lind Ave. . . .	Lowell St. . . .	Private.	30	-	600
Villa Ave. . . .	Winslow Ave. . . .	Arlington B. R. R. . . .	Private.	35	-	200
Village	Dane St. . . .	Vine St. . . .	Private.	25	-	370
Vinal Ave. . . .	Summer St. . . .	Highland Ave. . . .	Public.	45	1,400	-
Vinal	Richardson St. . . .	Northeasterly	Private.	20	-	200
Vine	Somerville Ave. . . .	Beacon St. . . .	Private.	25 & 40	-	1,400
Virginia	Aldrich St. . . .	Jasper St. . . .	Public.	40	405	-
Wade Ct. . . .	Cedar St. . . .	Westerly	Private.	20	-	180
Waldo	Highland Ave. . . .	Hudson St. . . .	Private.	40	-	287
Wallace	Holland St. . . .	Broadway	Public.	40	1,350	-
Walnut	Bow St. . . .	Broadway	Public.	40	3,830	-
Walter Pl. . . .	Walter St. . . .	Southwesterly	Private.	40	-	222
Walter	Walnut St. . . .	Bradley St. . . .	Private.	40	-	548
Ward	Medford St. . . .	Earl St. . . .	Private.	30	-	610
Warren Ave. . . .	Union Sq. . . .	Columbus Ave. . . .	Public.	40	650	-
Warren	Medford St. . . .	Cambridge Line	Private.	30	-	100
Warwick	Cedar St. . . .	Southeasterly	Private.	40	-	630
Washington Ave. . . .	Washington St. . . .	Northerly	Private.	18	-	350
Washington	Charlest'n Line	Cambridge Line	Public.	60 to 100	7,250	-
Water	South St. . . .	Northerly	Private.	25	-	250
Waverly	Washington St. . . .	Southerly	Private.	35	-	200
Ware	Curtis St. . . .	Northwesterly	Private.	40	-	700
Webster Ave. . . .	Union Sq. . . .	Cambridge Line	Public.	49.5	1,950	-
Webster	Franklin St. . . .	Cross St. . . .	Public.	40	1,000	-
Wellington Ave. . . .	Walnut St. . . .	Montgomery Ave. . . .	Public.	40	215	-
Wellington Ave. . . .	Montgomery Ave. . . .	Easterly	Private.	40	-	85
Wesley Pk. . . .	Wesley Sq. . . .	Northeasterly	Public.	40	405	-
Wesley	Otis St. . . .	Pearl St. . . .	Private.	30 & 40	-	515
West	Broadway	Heath St. . . .	Private.	30	-	250
West	Hawthorne St. . . .	Arlington B. R. R. . . .	Private.	30	-	590

*Proposed.

STREET.	FROM.	TO.	Public or Private.	Width in Feet.	LENGTH.	
					Public.	Private.
Weston Ave. . .	Clarendon Ave. .	Broadway . . .	Private.	40	-	525
Wheatland . . .	Broadway . . .	Jaques St. . . .	Public.	40	495	-
Wheatland . . .	Jaques St. . . .	Mystic Ave. . . .	Private.	40	-	855
Wheeler	Pinckney St. . .	Mt. Vernon St. .	Private.	40	-	269
Whipple	Hawthorne St. .	Arlington B. R. R.	Private.	30	-	575
White	Elm St.	Cambridge Line .	Private.	20	-	300
White St. Pl. .	White St.	Southeasterly . .	Private.	20	-	200
Wigglesworth .	Bonair St. . . .	Pearl St.	Private.	40	-	740
William	Chandler St. . .	Elm St.	Public.	40	381	-
Williams Ct. .	Porter St. . . .	Northwesterly . .	Private.	30	-	150
Willoughby . .	Central St. . . .	Sycamore St. . . .	Private.	30	-	400
Willow Ave. . .	Elm St.	Broadway	Public.	50	3,440	-
Willow Pl. . . .	Cambridge Line .	South St.	Private.	25	-	150
*Willowdale . .	Willow Ave. . . .	Easterly	Private.	40	-	550
Wilson Ave. . .	Broadway	B. & L. R. R. . . .	Private.	20	-	310
Wilton	Lowell St. . . .	Lawrence St. . . .	Private.	35	-	470
Windom	Elm St.	Summer St.	Private.	40	-	300
Winslow Ave. .	Elm St.	Grove St.	Public.	40	514	-
Winslow Ave. .	Grove St.	Clifton St.	Private.	40	-	572
Winter	Elm St.	Holland St.	Private.	30	-	430
Winter Hill Cir.	Broadway	Northeasterly . .	Private.	25	-	177
Winthrop Ave. .	Broadway	Mystic Ave. . . .	Public.	50	1,170	-
Woodbine . . .	Centre St. . . .	Lowell St.	Private.	30	-	600
*Woods Ave. . .	North St.	Alewife Brook . .	Private.	40	-	1,350
Wyatt Ct. . . .	South Wyatt St. .	Westerly	Private.	13	-	200
Wyatt (South) .	Concord Ave. . .	Northerly	Private.	40	-	400
Wyatt (North) .	Washington St. .	Southerly	Private.	40	-	350

* Proposed

UNNAMED STREETS.

	Meacham St. . .	Southeasterly . .	Private.	20	-	105
	Pearl St.	Pearl St.	Private.	40	-	560
	Somerville Ave.	Northeasterly . .	Private.	24	-	110
Total . . . .	. . . . .	. . . . .	. . . . .	. . . .	254 664	184,956

Public, 48.23 miles; private, 35.03 miles.

APPENDIX F.

CANVASS OF BIDS FOR PAVING UNION SQUARE, SOMERVILLE AND WEBSTER AVENUES. SECTION ONE. PROPOSALS SUBMITTED JULY 26, 1892.

QUANTITIES.	FRANK H. COWIN & Co.		ALBERT A. LIBBY & Co.		SOULE, DILLING- HAM, & Co.		CHARLES LINE- HAN.		MICHAEL J. COL- LINS AND BENJAMIN A. HAM.		HORATIO GORE & Co.	
	Price.	Amount.	Price.	Amount.	Price.	Amount.	Price.	Amount.	Price.	Amount.	Price.	Amount.
14,936 sq. yds. paving	\$1 38	\$20,611 68	\$1 35	\$30,163 60	\$1 15	\$17,176 40	\$1 23	\$18,371 28	\$1 10	\$16,429 60	\$1 05	\$18,682 80
*6,223 lin. ft. edgestone set and reset . .	23	1,431 29	33	2,053 59	30	1,866 90	20	1,244 60	20	1,244 60	28	1,742 40
2,620 sq. yds. sidewalk relaid	65.	1,703 00	55	1,441 00	49	1,283 80	25	655 00	62	1,624 40	48	1,257 60
457 sq. yds. crossings relaid	1 50	685 50	1 00	457 00	1 25	571 25	60	274 20	1 80	822 60	1 10	502 70
Totals	-	\$24,431 47	-	\$24,115 19	-	\$20,898 35	-	\$20,545 08	-	\$20,121 20	-	\$19,185 54

CANVASS OF BIDS FOR PAVING SOMERVILLE AVENUE. SECTION TWO. PROPOSALS SUBMITTED JULY 26, 1892.

QUANTITIES.	FRANK H. COWIN & Co.		SOULE, DILLING- HAM, & Co.		MICHAEL J. COL- LINS AND BENJAMIN A. HAM.		HORATIO GORE & Co.		WILLIAM H. GORE & Co.	
	Price.	Amount.	Price.	Amount.	Price.	Amount.	Price.	Amount.	Price.	Amount.
13,190 sq. yds. paving	\$1 38	\$18,202 20	\$1 15	\$15,168 50	\$1 02	\$13,453 80	\$1 00	\$13,110 00	\$ 985	\$ 2,992 15
5,498 lin. ft. edgestone set and reset . .	23	1,264 54	30	1,649 40	16	879 68	30	1,649 40	23	1,264 54
1,853 sq. yds. sidewalk relaid	65	1,191 45	49	898 17	85	1,558 05	48	879 84	43	788 19
467 sq. yds. crossings relaid	1 50	685 50	1 25	571 25	1 48	676 36	1 12	511 84	1 13	516 41
Totals	-	\$21,343 69	-	\$18,287 32	-	\$16,567 89	-	\$16,231 08	-	\$15,561 29

REPORT
OF THE
COMMITTEE ON FIRE DEPARTMENT.

CITY OF SOMERVILLE.

IN BOARD OF ALDERMEN, January 11, 1893.

Referred to the committee on printing, to be printed in the annual reports.
Sent down for concurrence.

GEORGE I. VINCENT, *Clerk.*

Concurred in.

IN COMMON COUNCIL, January 11, 1893.

CHARLES S. ROBERTSON, *Clerk.*

CITY OF SOMERVILLE.

IN COMMITTEE ON FIRE DEPARTMENT, }
January 2, 1893. }

To the City Council of Somerville : —

The following is the final report of the committee on fire department for the year ending December 31, 1892 : —

The manual force of the department consists of eighty-three members, including one chief and one assistant engineer.

A new fuel wagon has been purchased during the year of Messrs. E. Teel & Co., of Medford, for Hose 5, at a cost of \$73.50 ; also a new hose wagon has been purchased from the above named party for \$480.00, and placed in Steamer House No. 1.

A three-horse hitch has been purchased for Hook and Ladder Company No. 1 ; there has also been ordered, but not yet received, one patent three-horse engine pole, complete, for Steamer 1.

A brick hose trough for the washing of hose has been placed in Steamer 4 house, at a cost of \$150.00.

Fifteen hundred feet of hose has been purchased during the year, of the Boston Belting Company, at a cost of \$900.00.

Two fire-alarm boxes have been added during the year, one placed in Gilman square and one in Prospect street, near Oak street.

One old hose carriage has been sold during the year.

The usual repairs for the several houses have been made during the year as required, and the buildings are in good condition.

The price paid for water from the hydrants for the year was \$3,220.00 net, while in 1891 there was a discount of ten per cent., which reduced the bill to \$2,898.00.

The committee recommends that the addition be built to the steamer house on Central Hill Park, in accordance with plans already

secured, and that a chemical engine be placed therein; also a ten-circuit repeater for the fire-alarm telegraph.

They also recommend that a new hook and ladder truck be added to the department, and located in West Somerville.

We present herewith the report of the chief engineer, and recommend that it be printed with the annual reports.

The appropriation, receipts, and expenditures are shown by the following statements:—

FIRE DEPARTMENT ACCOUNT.

	CREDIT.	
Appropriation	\$37,000 00	
Receipts:—		
For manure sold	\$54 00	
old copper, zinc, etc.	125 73	
old hose carriage	15 00	
	<hr/>	
	194 73	
Total credit	<hr/>	\$37,194 73
	DEBIT.	
Expenditures:—		
For salaries of permanent men	\$16,224 28	
salaries of call-men	8,314 00	
substitute drivers	966 51	
improvements and repairs of		
apparatus and vehicles	1,197 84	
new vehicles and apparatus	560 00	
improvements and repairs of		
buildings and furniture,		
and new furniture	1,293 48	
maintenance and extension of		
fire-alarm telegraph	1,435 51	
hose and hose-pipe and repair-		
ing same	1,539 98	
grain and feed	938 40	
	<hr/>	
Amounts carried forward	\$32,470 00	\$37,194 73

<i>Amounts brought forward</i>	\$32,470 00	\$37,194 73
hay and straw	1,131 05	
horseshoeing	393 27	
horse medicine and doctoring,	87 05	
harnesses and repairing same,	298 56	
fuel	870 17	
supplies	161 56	
water for hydrants . .	3,220 00	
water for department build-		
ings	130 00	
gas	656 95	
ice	49 50	
washing and ironing . .	130 85	
telephones	129 30	
hand fire-extinguishers . .	164 18	
insurance	131 25	
incidentals	968 25	
	<hr/>	
Total debit		40,991 94
		<hr/>
Amount overdrawn		\$3,797 21

For the committee,

FRANK E. FITTS, *Chairman.*

WILLIAM P. MITCHELL, *Clerk.*

REPORT
OF THE
CHIEF ENGINEER OF FIRE DEPARTMENT.

CITY OF SOMERVILLE.

IN BOARD OF ALDERMEN, January 11, 1893.

Referred to the committee on printing, to be printed in the annual reports.
Sent down for concurrence.

GEORGE I. VINCENT, *Clerk*.

Concurred in.

IN COMMON COUNCIL, January 11, 1893.

CHARLES S. ROBERTSON, *Clerk*.

CITY OF SOMERVILLE.

OFFICE OF CHIEF ENGINEER OF FIRE DEPARTMENT, }
December 31, 1892. }

To the Committee on Fire Department:—

GENTLEMEN,—I herewith present to you a report of the operations of this department for the year 1892.

In presenting this report, I desire to thank his honor the mayor, the chairman, and other members of the committee, for the interest they have shown in all matters appertaining to its welfare; to the officers and other members of the department, I extend my thanks for their good work, as evinced in their successful efforts in extinguishing fires.

NUMBER OF FIRE ALARMS.

The total number of bell alarms was	.	.	.	.	.	116
The total number of still alarms was	.	.	.	.	.	16
The loss by fire was	.	.	.	.	.	\$65,537 00
The insurance on property was	.	.	.	.	.	142,250 00

The causes for which the alarms were given were as follows:—

No. of Alarm.

1. Hot irons in closet.
2. False alarm.
3. Chimney fire.
4. Overheated oil stove.
5. Breaking of lighted lamp.
6. Fire in Medford.
7. Gas jet in contact with wood.
8. Igniting of japan on hot stove.

9. Drying of plastering.
10. Igniting of naphtha from other fire.
11. Unknown.
12. Sparks on shingled roof.
13. Making fire with kerosene oil.
14. Fire in Cambridge.
15. Unknown.
16. Alarm from automatic signal.
17. Chimney fire.
18. Fire in Arlington.
19. Sparks in picker room from machinery.
20. Burning of rubbish.
21. Sparks on roof.
22. Caught from fire box in boiler room.
23. Hot ashes in barrel.
24. Overheated oil stove.
25. Railroad fence set on fire by sparks.
26. Fire in Medford.
27. Children playing with matches.
28. Overheated oil stove.
29. Burning of rubbish.
30. Fire in Medford.
31. Smoke mistaken for fire.
32. False alarm.
33. Breaking of kerosene lamp.
34. Unknown.
35. Unknown.
36. Slacking of lime.
37. Supposed incendiary.
38. Sparks on roof.
39. Burning of rubbish set fire to building.
40. Igniting of kettle of tar from candle.
41. Chimney fire.
42. Smokestack against wooden roof.
43. Curtain in contact with gas jet.
44. Children playing with matches.
45. Igniting of oil waste.
46. Breaking of kerosene lamp.
47. Boiling over of a pan of fat.

48. Smokestack in contact with roof.
49. Sparks on roof.
50. Sparks on roof.
51. False alarm.
52. Fire-crackers on roof.
53. Fire-crackers on roof.
54. Overheated oil stove.
55. Tree blown down.
56. Sparks from a tobacco pipe.
57. Breaking of kerosene lamp.
58. Electric light wire (defective insulator).
59. Burning of rubbish.
60. Sparks from tobacco pipe.
61. False alarm.
62. Unknown.
63. Sparks on roof.
64. Smoke mistaken for fire.
65. Killing vermin with naphtha.
66. Accidental dropping of matches in closet.
67. Fire in Medford.
68. Unknown.
Supposed rats and matches.
70. Sparks entering hay-loft through open door.
71. Chimney fire.
72. Rags round stove pipe.
73. Overheated oil stove.
74. Smoking in shed.
75. Sparks from tobacco pipe.
76. Electric wire setting fire to a tree.
77. Sparks on roof.
78. Sparks on roof.
79. Fire in Medford.
80. Unknown.
81. Unknown.
82. Igniting of gas from lantern.
83. Unknown.
84. Fire set by boys.
85. Supposed incendiary.
86. Fire in Cambridge.

87. Burning of old mattress.
88. Filling lighted lamp.
89. Igniting of paper from hot stove.
90. Chimney defective.
91. Fire in Medford.
92. Sparks on roof.
93. Sparks on roof.
94. Escaping steam mistaken for fire.
95. Alarm from automatic signal.
96. Unknown.
97. Falling of lighted lamp in repair shop.
98. Boiling over of a cement pot.
99. Sparks from hoisting engine fire box.
100. Unknown.
101. Burning of hay-stack.
102. Tablecloth in contact with lamp.
103. Defective fire-place.
104. Rags round stove pipe.
105. Unknown.
106. Oily rags in closet near hot-water tank.
107. Dropping of lighted match.
108. Defective chimney.
109. Smokestack in contact with roof boards.
110. Hot stove set fire to casing.
111. Sparks from burning grass.
112. Unknown.
113. Wood floor timbers built into chimneys.
114. Unknown (caught in closet).
115. Drying of plastering.
116. Chimney fire.

APPARATUS IN SERVICE.

The apparatus in service consists of two steam fire-engines, one hook and ladder truck, five hose wagons, one combined chemical engine and hose reel. The hose wagons are equipped with 900 feet of hose each, forty-three feet of ladders, and two portable chemical extinguishers.

There is 8,000 feet of good hose in service.

MANUAL FORCE.

The manual force consists of eighty-three men, divided as follows:—

Chief engineer	1
Assistant engineer	1
Two engine companies, 14 men each	28
Two hose companies, 9 men each	18
Two hose companies, 10 men each	20
One hook and ladder company, 15 men	15
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Total	83

RECOMMENDATIONS.

The rapid growth of the city in combustible buildings, placed in close proximity to one another, renders our city especially liable for fires to extend from one building to another, and thus become a conflagration. With these conditions there is no piece of fire apparatus we need so much as a chemical engine, and it should be located in the building occupied by Engine No. 1 or the immediate vicinity; it will then be of equal value for service in Wards One, Two, and Three.

LADDER SERVICE.

As there is but one ladder truck to cover the whole city, another truck should be put in service in the westerly section of the city, as the one we now have is located in Union square, remote from West Somerville.

FIRE-ALARM SYSTEM.

The fire-alarm system as now constituted is unreliable by reason of its being divided only into three circuits to cover the entire city. If one of these circuits breaks, one-third of the city is without any means of giving an alarm. I therefore earnestly recommend, as in previous years, that a ten-circuit repeater be put in service, so that the city can be divided into as many circuits as thought desirable; then if one circuit is broken, the close proximity of a box on another circuit will furnish the means of giving an alarm.

FIRE-ALARM BOXES.

Many fire-alarm boxes are required, but none of these additions, either increased number of circuits, new repeater, or additional boxes, can be provided until more room is furnished for the battery.

ENLARGING STEAMER HOUSE.

Plans for the enlarging of Engine House No. 1 were procured by the committee of 1891 for the purpose of providing room for these improvements.

These plans will have to be carried out, or other arrangements made, before any increase or change can be made in the telegraph system.

The purchase of land and erection of a new station for Ward One is now in the hands of the committee on fire department.

PERMANENT MEN.

The number of permanent men should be increased. I recommend that a permanent captain be appointed for Engine Company No. 1, and two permanent men on Engine No. 4, one of them to be detailed as hoseman on the chemical engine, and a permanent man on Hook and Ladder No. 1.

FIRE-ALARM BOXES AND HYDRANTS.

Fire-alarm boxes and hydrants are very important factors to the successful working of the fire department in putting out fires. To arrive at a fire soon after it is discovered and quickly put it out requires signal boxes to be placed in frequent positions and hydrants not more than 300 feet apart. I recommend that eight new alarm boxes be put in service, and fifty hydrants.

TABLE SHOWING THE NUMBER OF MILES RUN BY EACH COMPANY.

Engine Company No. 1	.	.	.	.	.	.	.	214
Hose Company No. 1	.	.	.	.	.	.	.	152
Hose Company No. 2	.	.	.	.	.	.	.	138

Hose Company No. 3	80
Engine Company No. 4	221
Hose Company No. 5	149
Ladder Company No. 1	215

TABLE SHOWING NUMBER OF FEET OF HOSE USED BY EACH COMPANY.

Engine Company No. 1, 2½-inch hose	18,150
Hose Company No. 1, 2½-inch hose	16,350
Hose Company No. 2, 2½-inch hose	12,950
Hose Company No. 3, 2½-inch hose	11,950
Engine Company No. 4, 2½-inch hose	10,300
Hose Company No. 5, 2½-inch hose	16,450
Hook and Ladder Company No. 1, small hose	300
Chemical Engine No. 4, small hose	5,800
Total number of feet of 2½-inch hose	86,150
Total number of feet of 1-inch hose	6,100

TABLE SHOWING NUMBER OF FEET OF LADDERS USED BY EACH COMPANY.

Engine Company No. 1	60
Hose Company No. 1	129
Hose Company No. 2	215
Hose Company No. 3	69
Engine Company No. 4	525
Hose Company No. 5	280
Hook and Ladder Company No. 1	3,279

TABLE SHOWING THE NUMBER OF BELL ALARMS ON EACH DAY OF THE WEEK.

Sunday	17
Monday	20
Tuesday	14
Wednesday	16
Thursday	28
Friday	12
Saturday	9

TABLE SHOWING THE NUMBER OF BELL ALARMS DURING
THE DAY AND NIGHT.

From 7 A. M. to 7 P. M.	65
From 7 P. M. to 7 A. M.	51

NUMBER OF ALARMS IN EACH MONTH.

January	4
February	7
March	5
April	13
May	15
June	17
July	10
August	16
September	5
October	6
November	9
December	9

ACCIDENTS TO FIREMEN.

Daniel R. Spike, Hose Company No. 2, fell from ladder ; bone fractured.

William H. Dennis, Engine Company No. 4, fell through floor ; hip injured.

Nathaniel C. Barker (assistant engineer) fell from wagon ; arm and leg injured.

Martin S. Lacey, Hook and Ladder Company No. 1 ; arm cut by falling slate.

Merrill N. Bent, Hose Company No. 5 ; face burnt by fire blast.

ROSTER OF THE FIRE DEPARTMENT OF THE CITY OF SOMERVILLE OF 1892.

Chief Engineer, JAMES R. HOPKINS.

Assistant Engineer, NATHANIEL C. BARKER.

Fire-alarm Operator, EDWARD F. BACKUS.

ENGINE COMPANY NO. 1.

NAME.	RANK.	AGE.	OCCUPATION.	RESIDENCE.
Frank Langer . . .	Captain . .	37	Wood-moulder .	Oxford St.
Benjamin H. Pond .	Lieutenant .	23	Poultry dealer .	Vinal Ave.
Wm. H. Whitcomb .	Hoseman . .	32	Janitor . . .	Prescott St.
Joseph Young . . .	Hoseman . .	57	Janitor . . .	Highland Ave.
Geo. L. Blackbird .	Hoseman . .	37	Janitor . . .	Highland Ave.
Fred Young	Hoseman . .	24	Plumber . . .	School St.
Jesse A. Lipsett . .	Hoseman . .	26	Wood-turner . .	Highland Ave.
Sewall M. Rich . . .	Hoseman . .	30	Real estate . .	Medford St.
Oscar J. Lingley . .	Hoseman . .	24	Milkman . . .	Berkeley St.
Fred'k A. Blackburn .	Hoseman . .	22	Painter . . .	Webster St.
Henry A. Byrnes . .	Engineman .	52	Engineman . .	Steamer House.
William A. Burbank .	A't Engine'n	50	Asst. Engineman	Steamer House.
William A. Perry . .	Driver . . .	39	Driver	Steamer House.
George F. Harris . .	Driver . . .	33	Driver	Steamer House.

HOSE COMPANY NO. 1.

NAME.	RANK.	AGE.	OCCUPATION.	RESIDENCE.
Thomas H. Daley . .	C'pt.& Driv.	47	Driver	Webster St.
John Frizzell . . .	Lieutenant .	36	Painter	Everett Ave.
Edgar F. Shaw . . .	Hoseman . .	40	None	Cross St.
Clarence V. Cook . .	Hoseman . .	34	Rubber-worker .	Pearl St.
George North . . .	Hoseman . .	30	Fish dealer . .	Cutter St.
Edward Grant . . .	Hoseman . .	39	Carpenter . . .	Webster St.
John W. McDonald .	Hoseman . .	39	Milkman . . .	Webster St.
John W. Logan . . .	Hoseman . .	50	Painter	Cross St.
James E. Lovejoy . .	Hoseman . .	32	Undertaker . .	Webster St.

HOSE COMPANY NO. 2.

NAME.	RANK.	AGE.	OCCUPATION.	RESIDENCE.
Frank W. Ring . . .	Captain . .	33	Teamster . . .	Wheatland St.
Daniel R. Spike . . .	Lieutenant .	48	Janitor	Broadway.
Joseph H. Hollis . . .	Hoseman . .	58	Painter	Jaques St.
Charles H. Timson . . .	Hoseman . .	31	Teamster	Marshall St.
Edwin R. Perham . . .	Hoseman . .	41	Expressman . . .	Marshall St.
John H. Pattee	Hoseman . .	31	Clerk	Gilman St.
William F. Marble . . .	Hoseman . .	40	Fish dealer . . .	Jaques St.
Charles A. Woodbury . .	Hoseman . .	41	Teamster	Sargent Ave.
Albert Irish	Hoseman . .	24	Clerk	Marshall St.
Edward W. Ring . . .	Driver . . .	46	Driver	Marshall St.

HOSE COMPANY NO. 3.

NAME.	RANK.	AGE.	OCCUPATION.	RESIDENCE.
Charles Trull	C'pt.& Driv.	65	Driver	Prospect St.
Alfred R. Higgins . . .	Lieutenant .	43	Cooper	Prospect St.
Frank L. Draper	Hoseman . .	40	Machinist	Medford St.
Charles H. Bridges . . .	Hoseman . .	44	Machinist	Medford St.
John H. Cuddy	Hoseman . .	40	Teamster	Bow-st. Pl.
James A. Ferguson . . .	Hoseman . .	33	Cooper	Warren Ave.
Thomas W. Joy	Hoseman . .	37	Cooper	Joseph St.
Joseph H. Cribby . . .	Hoseman . .	28	Cooper	Prospect St.
Henry J. Turner	Hoseman . .	29	Teamster	Hawkins St.

ENGINE COMPANY NO. 4.

NAME.	RANK.	AGE.	OCCUPATION.	RESIDENCE.
Samuel H. Stevens . . .	C'pt.& Driv.	50	Driver	Steamer House.
Edwin F. Trefren . . .	Lieutenant .	36	Water works . . .	Morrison St.
Danforth S. Steele . . .	Hoseman . .	40	Cabinet-maker . .	Highland Ave.
Eugene H. Jones	Hoseman . .	27	Lineman	Park Ave.
Frank A. Hersey	Hoseman . .	36	Janitor	Highland Ave.
John F. Burton	Hoseman . .	36	Painter	Highland Ave.
James J. Watkins	Hoseman . .	40	Tinsmith	Broadway.
James I. King	Hoseman . .	27	Painter	Broadway.
Joseph A. Sander	Hoseman . .	28	Teamster	Willow Ave.
Ephriam P. Cook	Hoseman . .	50	Janitor	Elm St.
Charles H. Stearns . . .	Driver . . .	37	Driver	Steamer House.
Lindorf D. Bixby	Engineer . .	51	Engineman	Steamer House.
John Gillooly	Asst. Engi'n	37	Asst. Engineman .	Steamer House.

HOSE COMPANY NO. 5.

NAME.	RANK.	AGE.	OCCUPATION.	RESIDENCE.
Irving C. Jackson . .	C'pt.& Driv.	45	Driver	Lowell St.
William J. Blaisdell .	Lieutenant.	46	Painter	Quincy St.
Charles H. Hilt . . .	Hoseman .	42	Carpenter . . .	Porter St.
James H. Banks . . .	Hoseman .	40	Cabinet-maker .	Beacon St.
Frederick G. Jones .	Hoseman .	27	Paper-hanger .	Somerville Ave.
Oscar P. Sheltus . .	Hoseman .	35	Cabinet-maker .	Hose House.
Merrill N. Bent . . .	Hoseman .	29	Cabinet-maker .	Beacon St.
H. W. Hutchins . . .	Hoseman .	26	Teamster	Dane St.
Daniel W. McDermott	Hoseman .	46	Painter	Somerville Ave.
H. G. Curtis	Hoseman .	28	Draper	Somerville Ave.

ROBERT A. VINAL HOOK AND LADDER COMPANY NO. 1.

NAME.	RANK.	AGE.	OCCUPATION.	RESIDENCE.
Melvin B. Ricker . .	C'pt.& Driv.	51	Driver	Washington St.
Horace P. Ewell . . .	Lieutenant .	35	Carpenter . . .	Bow-st. Pl.
William A. McLane .	Ladderman	33	Engineer	Clark St.
John E. Hill	Ladderman	47	Salesman	Rush St.
Patrick J. Follen . .	Ladderman	33	Upholsterer . .	Allen St.
Frank S. Brown . . .	Ladderman	47	Cooper	Washington St.
James M. Gould . . .	Ladderman	47	Printer	Otis St.
James D. Perkins, Jr..	Ladderman	32	Paper-hanger .	Bow-st. Pl.
Charles A. Southwick	Ladderman	35	Laborer	Clark St.
Martin S. Leacy . . .	Ladderman	30	Painter	Washington St.
William J. Jones . . .	Ladderman	38	Machinist . . .	School St.
George A. Page . . .	Ladderman	37	Laborer	Webster Ave.
Charles E. Shaw . . .	Ladderman	38	Paper-hanger .	Highland Ave.
Richard F. Clarkson .	Ladderman	33	Painter	Linden St.
J. E. Thompson . . .	Ladderman	22	Laborer	Webster St.

JAMES R. HOPKINS,

Chief of Fire Department.

LINEMAN'S REPORT.

SOMERVILLE, December 31, 1892.

Chief J. R. Hopkins, Superintendent of Fire Alarm :—

I herewith submit to you the annual report of the fire-alarm department for the year ending December 31, 1892. During the year the system has been maintained in good condition, alarms having worked correctly. Two new boxes have been added during the year — box 224, located on Prospect street, near Oak street, and box 331, in Gilman square.

A larger battery room is needed, as the present room is crowded to its utmost capacity. As the number of wires in the city has increased very materially, especially the electric light wires, an additional permanent man is needed in this department; it being exceedingly difficult, at a moment's notice, to get a competent man temporarily. Great care must be used in handling the wires to prevent their coming in contact with electric light and trolley wires. It is impracticable for one man to accomplish this without great risk and with sufficient rapidity, especially during a storm; and in many cases it is absolutely impossible. A wagon to carry tools and supplies is needed to maintain the alarm safely and repair breaks quickly.

The system at present consists of the following :—

Fifty miles of wire, 53 boxes, 6 tower-bell strikers, 6 box indicators, 26 gongs, 1 five-circuit repeater, and 257 jars gravity battery.

Respectfully submitted,

EDWARD F. BACKUS,

Fire-Alarm Operator.

REPORT

OF THE

COMMITTEE ON FUEL AND STREET LIGHTS.

CITY OF SOMERVILLE.

IN BOARD OF ALDERMEN, January 11, 1893.

Referred to the committee on printing, to be printed in the annual reports.
Sent down for concurrence.

GEORGE I. VINCENT, *Clerk.*

IN COMMON COUNCIL, January 11, 1893.

Concurred in.

CHARLES S. ROBERTSON, *Clerk.*

CITY OF SOMERVILLE.

IN COMMITTEE ON FUEL AND STREET LIGHTS, }
January 2, 1893. }

To the City Council of Somerville:—

The following is the final report of the committee on fuel and street lights for the year ending December 31, 1892:—

SCHOOL FUEL ACCOUNT.

CREDIT.

Appropriation	\$7,150 00
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DEBIT.

Expenditures:—

For fuel to Beach-street School .	\$97 80
Bell School . .	225 83
Bennett School . .	136 15
Bingham School . .	176 00
Burns School . .	155 45
Cedar-street School .	26 18
Cummings School .	144 13
Davis School . .	176 03
Edgerly School . .	297 50
Forster School . .	351 50
Franklin School . .	130 96
Glines School . . .	533 13
Harvard School . .	32 99

<i>Amounts carried forward . .</i>	<u>\$2,483 65</u>	<u>\$7,150 00</u>
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<i>Amounts brought forward</i>	.	\$2,483 65	\$7,150 00
High School	.	306 70	
Highland School	.	480 78	
Jackson School	.	219 20	
Knapp School	.	605 27	
Lincoln School	.	346 92	
Morse School	.	673 04	
Prescott School	.	441 20	
Pope School	.	1,138 52	
Prospect Hill School	.	313 97	
Webster School	.	138 43	
		<hr/>	
Total debit	.	.	7,147 68
			<hr/>
Balance unexpended	.	.	\$2 32
			<hr/>

STREET LIGHTS ACCOUNT.

CREDIT.

Appropriation	\$27,000 00
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DEBIT.

Expenditures:—

For lighting and care of oil lamps,	\$42 90	
electric lighting	26,327 15	
electric mast arms	10 00	
moving street lamps	49 50	
advertising for contract (elec-		
tric lighting)	18 40	
carriage hire	46 50	
cutting off gas supplies	35 00	
Total debit	<hr/>	26,529 45
		<hr/>
Balance unexpended	.	\$470 55
		<hr/>

FUEL.

Under an order dated July 13, authorizing this committee to make contracts with Messrs. Horatio Wellington & Co., B. F. Wild

& Co., and George M. Winslow & Co. for the furnishing of such fuel as may be required at the various schoolhouses and public buildings to December 31, at the following-named prices :—

FURNACE COAL.	EGG COAL.	STOVE COAL.	SOFT WOOD.	HARD WOOD.
\$5 20	\$5 20	\$5 20	\$5 75	\$7 75

the fuel was furnished as authorized by said order, at the prices as stated, and placed in the various schoolhouses and public buildings.

STREET LIGHTS.

The city is now lighted exclusively with electric lights, with the exception of Boston avenue, near the Medford line, where three oil lamps are used and cared for by the Wheeler Reflector Company, at a cost of five cents per night, and lighted, as last year, on moon schedule. The cost of lighting the oil lamps for the year was \$42.90.

The city has been lighted during the year by electricity under the old three-year contract, made with the Somerville Electric Light Company October 1, 1889, which included 140 arc lights and 275 incandescent lights, for the sum of \$20,000.00 per year. This number was increased from time to time, and on January 1, 1892, there were 158 arc and 356 incandescent lights. The number of arc lights was increased to September 1 of the present year, and at the expiration of the contract there were 186 arcs, while the incandescent lights were decreased twenty-eight.

Under the old contract the arc lights were used each and every night from dusk to 1 o'clock A. M., while the incandescent lights were used only on moon schedule.

Under the new contract, made October 1 of the present year, with the Somerville Electric Light Company, for five years, the city is now lighted every night and all night with half arc and incandescent lights. The price paid for the arc lights under the new contract is \$120 each per year, until the number shall reach 400, after which the price will be \$115 per light per year; the price paid for incandescent lights to be \$25 each per annum.

The committee would recommend that the next City Council appoint a suitable person to look after the street lighting, as under the new contract the city is to receive six cents per hour for all arc lights out, and one cent per hour for all incandescent lights out. There are many lights reported out each night, but your committee are of the opinion that not more than fifty per cent. of the total outs are reported. The present superintendent of lights is also superintendent of public buildings, building permits, and plumbing, and is unable to give the time to the street lighting which the city should receive.

	OIL LAMPS.	ARC ELECTRIC LAMPS.	INCANDESCENT ELECTRIC LAMPS.	TOTAL.
Lamps in the city January 1, 1892, as per last report	3	158	356	517
Erected during the year	-	115	-	115
Discontinued during the year	-	-	134	134
Lamps in the city January 1, 1893	3	273	222	498

For locations of the above lights see report of the superintendent of street lights.

For the committee,

WARREN J. ROBINSON, *Chairman.*

WILLIAM P. MITCHELL, *Clerk.*

REPORT
OF THE
SUPERINTENDENT OF LIGHTS.

CITY OF SOMERVILLE.

IN BOARD OF ALDERMEN, January 11, 1893.

Accepted and referred to the committee on printing, to be printed in the annual reports. Sent down for concurrence.

GEORGE I. VINCENT, *Clerk*.

Concurred in.

IN COMMON COUNCIL, January 11, 1893.

CHARLES S. ROBERTSON, *Clerk*.

CITY OF SOMERVILLE.

OFFICE OF THE SUPERINTENDENT OF LIGHTS, }
January 2, 1893. }

To the Honorable the Mayor and City Council:—

GENTLEMEN,—As required by ordinance, I have the honor to submit my report relating to street lights for the year 1892.

There were in the city on January 1, 1892, 517 street lamps. During the year 115 electric arcs and ten incandescents have been added, and 144 incandescents discontinued, making the number in the city December 31, 1892, three oil lamps, 273 electric arcs, and 222 incandescents.

The arc and incandescent lights are to burn, by terms of the new contract made for five years from October 1, 1892, 3,828 hours in each year. A schedule of the time of lighting and putting out is given to the company each month by me.

A fine of six cents per hour for arc and one cent per hour for incandescent lights is imposed on the company for all lights out during the time they should be in service. The way of obtaining the outs is by the police patrolmen, which seems to me to be the best way yet devised. It is done so in all cities which I have knowledge of. The police cover the whole city, and a report from them each morning comes as near being correct as any that can be obtained without great expense.

Three of the arc lights have been changed from iron poles and placed upon arms, on wooden poles, leaving only four upon iron extensions which belong to the city. Four arcs are suspended across the street, twenty-nine are upon wooden poles, and 236 are upon arms. The change made from placing the arc lights upon poles to arms is a good one, and carries out the recommendations of my report of last year.

ELECTRIC STREET LIGHTS.

The following table gives the locations of lights, their kinds, and how placed:—

ELECTRIC ARC LAMPS.	ELECTRIC STREET LIGHTS.			
	ON POLES.	ON ARMS.	SUSPENDED.	ON IRON EXTENSIONS
Adrian St., near Knapp School	-	1	-	-
Albion St., corner of Centre St.	-	1	-	-
Alpine St.	-	1	-	-
Ames St., opposite Miner St.	-	1	-	-
Appleton St., corner of Newberne St.	-	1	-	-
Arlington St., near Hathorn St.	-	1	-	-
Ashland St., corner Sartwell Ave.	-	1	-	-
Auburn Ave., in front of estate No. 21	-	1	-	-
Austin St., corner of Benedict St.	1	-	-	-
Bartlett St., opposite Robinson St.	-	1	-	-
Beacon St., opposite Concord Ave.	-	1	-	-
Beacon St., opposite Buckingham St.	-	1	-	-
Beacon St., corner of Washington St.	-	1	-	-
Beacon St., corner of Kent St.	-	1	-	-
Beacon St., corner of Park St.	-	1	-	-
Beacon St., corner of Sacramento St.	-	1	-	-
Beacon St., between Sacramento and Harris Sts.	-	1	-	-
Beacon St., opposite Ivaloo St.	-	1	-	-
Beach St., at bend	-	1	-	-
Benton Ave., opposite Gibbens St.	-	1	-	-
Berkeley St., corner of Hersey St.	-	1	-	-
Bond St., at elbow	1	1	-	-
Bonair St., corner of Arthur St.	-	1	-	-
Brastow Ave.	-	1	-	-
Boston St., corner Prospect Hill Ave.	1	-	-	-
Broadway, corner Union St.	-	1	-	-
Broadway, corner Benedict Ave.	-	1	-	-
Broadway, opposite Franklin St.	-	1	-	-
Broadway, opposite Glen St.	-	1	-	-
Broadway, opposite Cross St.	-	1	-	-
Broadway Parkway	1	-	-	-
Broadway Parkway	1	-	-	-
Broadway Parkway	1	-	-	-
Broadway Parkway	1	-	-	-
Broadway, corner Endicott Ave.	-	1	-	-
Broadway, front of estate No. 285	-	1	-	-
Broadway, corner Marshall St.	-	-	-	1
Broadway, opposite School St.	-	1	-	-
Broadway, corner Dartmouth St.	-	1	-	-
Broadway, corner Fenwick Ave.	-	1	-	-

ELECTRIC STREET LIGHTS.—*Continued.*

ELECTRIC ARC LAMPS.	ON POLES.	ON ARMS.	SUSPENDED.	ON IRON EXTENSIONS
Broadway, corner Main St.	1	-	-	-
Broadway, corner Adams St.	-	1	-	-
Broadway, opposite Partridge Ave.	-	1	-	-
Broadway, corner Medford St.	-	1	-	-
Broadway, corner Cedar St.	-	1	-	-
Broadway, corner Willow Ave.	-	1	-	-
Broadway, corner Elm St.	1	-	-	-
Broadway, corner Wallace St.	-	1	-	-
Broadway, corner Holland St.	1	-	-	-
Broadway, corner North St.	1	-	-	-
Boston St., corner Greenville St.	-	1	-	-
Bow St., corner Bow-street Pl.	-	1	-	-
Bow St., corner Walnut St.	-	1	-	-
Bow St., corner Wesley St.	-	1	-	-
Cedar St., opposite Clyde St.	1	-	-	-
Central St., opposite Vernon St.	-	1	-	-
Central St., opposite Forster St.	-	1	-	-
Central St., between estates No. 192 and No. 194	-	1	-	-
Central St., at Berkeley St.	-	1	-	-
Church St.	-	1	-	-
Columbus Ave., corner Warren Ave	-	1	-	-
Columbus Ave., corner Bonner Ave.	-	1	-	-
Concord Sq., opposite Knapp St.	-	1	-	-
Concord Ave., at Leon St.	1	-	-	-
Concord Ave., at Springfield St.	-	1	-	-
Chandler St., near William St.	-	1	-	-
Chandler St., near Chapel St.	-	1	-	-
Crescent St., corner Pearl St.	-	1	-	-
Crocker St., at Hospital	-	1	-	-
Cross St., corner Pearl St.	-	1	-	-
Cross St., corner Ellsworth St.	-	1	-	-
Cross St., corner Oliver St.	-	1	-	-
Cross St. at Lowell Railroad bridge	1	-	-	-
Cross St., opposite estate No. 62	-	1	-	-
Curtis St., corner Professors' Row	-	1	-	-
Curtis St., opposite Fairmount Ave.	-	1	-	-
Curtis St., opposite Remick Pl.	-	1	-	-
Dane St., opposite Dane Ct.	-	1	-	-
Dana St., corner Otis St.	-	1	-	-
Day St., opposite Herbert St.	-	1	-	-
Day St., corner Orchard St.	-	1	-	-
Davis Sq.	-	1	-	1
Delaware St., at elbow	-	1	-	-
Elm St., corner William St.	-	1	-	-
Elm St., opposite Morrison St.	-	1	-	-
Elm St., corner Chester St.	-	1	-	-
Elm St., corner Russell St.	-	1	-	-
Elm St., corner Beach St.	1	-	-	-

ELECTRIC STREET LIGHTS.— *Continued.*

ELECTRIC ARC LAMPS.	ON POLES.	ON ARMS.	SUSPENDED.	ON IRON EXTENSIONS
Elm St., at White St.	-	1	-	-
Elm St., corner Mossland St.	-	1	-	-
Elm St., opposite Porter St.	-	1	-	-
Elm St., opposite Davenport St.	-	1	-	-
Elm St., opposite Winter St.	-	1	-	-
Elm St., opposite Kenwood St.	-	1	-	-
Evergreen Ave., at Marshall St.	-	1	-	-
Evergreen Ave., at School St.	-	1	-	-
Evergreen Ave., at Dartmouth St.	-	1	-	-
Evergreen Ave., at Thurston St.	1	-	-	-
Everett Ave., opposite estate No. 23	-	1	-	-
Flint St., opposite Rush St.	-	1	-	-
Flint St., opposite Flint Pl.	-	1	-	-
Florence St., between estates Nos. 33 and 35	-	1	-	-
Franklin St., opposite Perkins St.	-	1	-	-
Franklin St., opposite Flint St.	-	1	-	-
Fremont St., between estates Nos. 11 and 17	-	1	-	-
Fountain Ave., opposite estate No. 12	-	1	-	-
Frost Ave., at bend	-	1	-	-
Gilman St., corner Aldrich St.	-	1	-	-
Gilman St., opposite Jasper St.	-	1	-	-
Glen St., opposite Brooks St.	-	1	-	-
Grand View Ave.	-	1	-	-
Gorham St., near Howard St.	-	1	-	-
Greene St., at bend	-	1	-	-
Harvard St., corner Chestnut Ct.	-	1	-	-
High St., opposite Prospect Hill Ave.	-	1	-	-
Highland Ave., corner Medford St.	-	1	-	-
Highland Ave., corner Walnut St.	-	1	-	-
Highland Ave., opposite Prescott St.	-	1	-	-
Highland Ave., corner School St.	-	1	-	-
Highland Ave., opposite Trull Lane	-	1	-	-
Highland Ave., at Central St.	-	-	1	-
Highland Ave., corner Belmont St.	-	1	-	-
Highland Ave., corner Porter St.	-	1	-	-
Highland Ave., corner Cedar St.	-	1	-	-
Highland Ave., corner Willow Ave.	-	1	-	-
Highland Ave., corner West St.	-	1	-	-
Highland Ave., corner Grove St.	-	1	-	-
Highland Ave., corner Cherry St.	-	1	-	-
Holland St., opposite Wallace St.	-	1	-	-
Holland St., opposite Gorham St.	-	1	-	-
Holland St., corner Cameron Ave.	-	1	-	-
Hudson St., near corner Benton Ave.	-	1	-	-
Irving St., near Holland St.	-	1	-	-
Jaques St., corner Temple St.	-	1	-	-
Jenny Lind Ave., between Medford and Vernon Sts.	-	1	-	-
Joy St., corner Leonard Pl.	-	1	-	-
Kingston St., opposite Campbell Park	-	1	-	-

ELECTRIC STREET LIGHTS.—*Continued.*

ELECTRIC ARC LAMPS.	ON POLES.	ON ARMS.	SUSPENDED.	ON IRON EXTENSIONS
Laurel St., near Greene St.	-	1	-	-
Linden Ave., near Elm St.	-	1	-	-
Linden Ave., corner Linden Pl.	-	1	-	-
Lincoln St., at Lincoln Ave.	-	1	-	-
Line St., corner Cooney St.	-	1	-	-
Linwood St., corner Poplar St.	1	-	-	-
Linwood St., between Poplar and Washington Sts. .	-	1	-	-
Lowell St., between Summer St. and Somerville Ave.	-	1	-	-
Lowell St., corner Fiske Ave.	-	1	-	-
Lowell St., opposite Wilton St.	-	1	-	-
Madison St.	-	1	-	-
Marion St., corner Cook St.	1	-	-	-
Maple St.	-	1	-	-
Marshall St., opposite Howe St.	-	1	-	-
Main St., corner Moreland St.	-	1	-	-
Meacham St., opposite Kingston St.	-	1	-	-
Medford St., corner Ward St.	-	1	-	-
Medford St., corner South St.	-	1	-	-
Medford St., corner Somerville Ave.	1	-	-	-
Medford St., in front estate of John Manning . . .	-	1	-	-
Medford St., at Central Sq.	-	-	1	-
Medford St., corner Walnut St.	1	-	-	-
Medford St., at Gilman Sq.	1	-	-	-
Medford St., corner School St.	-	1	-	-
Medford St., corner Essex St.	-	1	-	-
Medford St., corner Thurston St.	-	1	-	-
Medford St., corner Sycamore St.	-	1	-	-
Medford St., corner Central St.	-	1	-	-
Medford St., corner Jenny Lind Ave.	-	-	1	-
Medford St., corner Norwood Ave.	-	1	-	-
Moore St., corner Mead St.	-	1	-	-
Morrison St., opposite Clifton St.	-	1	-	-
Morrison St., opposite Grove St.	-	1	-	-
Mt. Pleasant St., between Perkins St. and Broadway	-	1	-	-
Mt. Vernon St., at Lincoln Ave.	-	1	-	-
Myrtle St., at top of hill	-	1	-	-
Myrtle St., near Washington St.	-	1	-	-
Mystic St. (Ward 1)	-	1	-	-
Mystic Ave., corner North Union St.	-	1	-	-
Newton St., corner Joseph St.	-	1	-	-
Newbury St.	-	1	-	-
Oak St., at bend	-	1	-	-
Oakland Ave., corner School St.	-	1	-	-
Oliver St., corner Glen St.	-	1	-	-
Orchard St., corner Russell St.	-	1	-	-
Orchard St., corner Dover St.	-	1	-	-
Orchard St., corner Chester St.	-	1	-	-
Park Ave., opposite Chandler St.	-	1	-	-
Partridge Ave., between Medford and Vernon Sts. .	-	1	-	-

ELECTRIC STREET LIGHTS.— *Continued.*

ELECTRIC ARC LAMPS.	ON POLES.	ON ARMS.	SUSPENDED.	ON IRON EXTENSIONS
Parker St., corner Fremont Ave.	-	1	-	-
Pearl St., corner Bradley St.	-	1	-	-
Pearl St., corner Mt. Vernon St.	-	1	-	-
Pearl St., corner Florence St.	-	1	-	-
Pearl St., corner Franklin St.	-	1	-	-
Pearl St., corner Glen St.	-	-	1	-
Pearl St., corner Aldrich St.	-	1	-	-
Pearl St., corner Walnut St.	-	1	-	-
Perkins St., corner Mt. Pleasant St.	-	1	-	-
Perkins St., opposite Pinckney St.	-	1	-	-
Pinckney St., between Pearl and Washington Sts. . .	-	1	-	-
Prescott St.	-	1	-	-
Preston St., near School St.	-	1	-	-
Professors' Row, at Packard Ave.	-	1	-	-
Professors' Row, at College Ave.	-	1	-	-
Prospect St., opposite Oak St.	-	1	-	-
Prospect St., corner Prospect Pl.	-	1	-	-
Putnam St., between Highland Ave. and Summer St.	-	1	-	-
Richardson St., opposite Henderson St.	1	-	-	-
Richdale Ave., opposite Lee St.	-	1	-	-
Rush St., between Broadway and Brook St.	-	1	-	-
Sargent Ave., corner Sherman Pl.	-	1	-	-
School St., opposite Berkeley St.	-	1	-	-
School St., opposite Montrose St.	-	1	-	-
Springfield St., opposite Houghton St.	-	1	-	-
Somerville Ave., at Craigie St.	-	1	-	-
Somerville Ave., at Central St.	-	1	-	-
Somerville Ave., near Bow St.	-	1	-	-
Somerville Ave., corner Washington St.	1	-	-	-
Somerville Ave., at Fitchburg Railroad bridge . .	1	-	-	-
Somerville Ave., at Spring St.	-	1	-	-
Somerville Ave., opposite Laurel St.	-	1	-	-
Somerville Ave., opposite Dane St.	-	1	-	-
Somerville Ave., corner School St.	-	1	-	-
Somerville Ave., opposite Hawkins Ct.	-	1	-	-
Somerville Ave., corner Prospect St.	-	1	-	-
Somerville Ave., near Mystic St.	-	1	-	-
Somerville Ave., opposite Poplar St.	-	1	-	-
Somerville Ave., at Fitchburg Railroad crossing . .	1	-	-	-
Somerville Ave., corner Franklin Ct.	-	1	-	-
Somerville Ave., corner Sacramento St.	-	1	-	-
Summer St., corner Belmont St.	-	1	-	-
Summer St., corner Cedar St.	-	1	-	-
Summer St., corner Willow Ave.	-	1	-	-
Summer St., corner Porter St.	-	1	-	-
Summer St., corner Benton Ave.	-	1	-	-
Summer St., corner Central St.	-	1	-	-
Summer St., corner Preston St.	-	1	-	-

ELECTRIC STREET LIGHTS.—*Concluded.*

ELECTRIC ARC LAMPS.	ON POLES.				ON IRON EXTENSIONS
	ON POLES.	ON ARMS.	SUSPENDED.		
Summer St., corner School St.	-	1	-	-	-
Summer St., corner Prescott St.	-	1	-	-	-
Summer St., corner Putnam St.	-	1	-	-	-
Summer St., corner Cherry St.	-	1	-	-	-
Summer St., opposite Windom St.	-	1	-	-	-
Summit St., corner Billingham St.	-	1	-	-	-
Sycamore St., in front of estate No. 141	-	1	-	-	1
Tremont St.	-	1	-	-	-
Tufts St., corner Glen St.	-	1	-	-	-
Union Sq.	-	-	-	-	1
Union Sq.	-	-	-	-	1
Vernon St., corner Trull St.	1	-	-	-	-
Vinal Ave., opposite Aldersey St.	-	1	-	-	-
Vinal Ave., opposite Pleasant Ave.	-	1	-	-	-
Walnut St., opposite Mills St.	-	1	-	-	-
Walnut St., corner Summit Ave.	-	1	-	-	-
Walnut St., corner Columbus Ave.	-	1	-	-	-
Washington St., corner Mt. Vernon St.	-	1	-	-	-
Washington St., corner Washington Ave.	-	1	-	-	-
Washington St., corner Florence St.	-	1	-	-	-
Washington St., opposite Franklin St.	-	1	-	-	-
Washington St., opposite Tufts St.	-	1	-	-	-
Washington St., opposite Joy St.	-	1	-	-	-
Washington St., at Medford St.	-	1	-	-	-
Washington St., corner Mystic St.	-	1	-	-	-
Washington St., at Fitchburg Railroad bridge	1	-	-	-	-
Washington St., corner Calvin St.	-	1	-	-	-
Washington St., corner Bonner Ave.	-	1	-	-	-
Washington St., corner Bowdoin St.	-	1	-	-	-
Webster St., opposite Cutter St.	-	1	-	-	-
Webster St., opposite Rush St.	-	1	-	-	-
Webster Ave., opposite Prospect St.	-	1	-	-	-
Webster Ave., opposite Norfolk St.	-	1	-	-	-
Webster Ave., opposite Everett St.	-	1	-	-	-
Webster Ave., junct. Newton St. at Fitchburg R. R.	-	1	-	-	-
Wellington Ave., opposite Montgomery Ave.	-	1	-	-	-
Wheatland St., corner Jaques St.	-	1	-	-	-
Willow Ave., opposite Morrison St.	-	1	-	-	-
Wyatt St.	-	1	-	-	-

LOCATION OF INCANDESCENT LIGHTS.

LOCATION.	LOCATION.
Adams St., opposite No. 18.	College Ave.
Adams St., opposite No. 56.	College Ave.
Allen St., at end.	Concord Ave., between Concord Sq. and Prospect St.
Allen St., near Somerville Ave.	Craigie St., opposite No. 74.
Autumn St., corner Louisburg Pl.	Crescent Ave., opposite No. 10.
Avon St., first from School St.	Curtis St., between Wall St. and Raymond Ave.
Avon St., opposite No. 24.	Dane St., opposite No. 23.
Beach St., near Spring St.	Dane St., corner Frost Ave.
Belmont St., opposite No. 14.	Dane St., at Fitchburg railroad.
Belmont St., corner Snow Pl.	Dane St.
Belmont St., opposite No. 41.	Dell St.
Belmont St., between Highland Ave. and Summer St.	Dickinson St., opposite Hammond St.
Benedict St., between Nos. 3 and 5.	Dover St.
Berkeley St., near Hersey St.	Elm St., corner Chapel St.
Bleachery Court.	Elm Pl., near end.
Bolton St., corner Oak St.	Emerson St.
Bond St., near Broadway.	Everett St., opposite Emerson St.
Bond St., near Broadway.	Fairmount Ave.
Bonair St., corner Cross St.	Flint St.
Bonair St., corner Wigglesworth St.	Fitchburg St.
Bonair St., corner Melvin St.	Florence Street, between Perkins and Pearl Sts.
Bonair St., in front of No. 85.	Forster St., corner Tennyson St.
Bow-street Pl.	Forest St., corner Beacon St.
Boston St., corner High St.	Franklin Ave.
Bradford Ave.	Franklin St., corner Oliver St.
Broadway Pl.	Franklin St., between Washington St. and Hadley Ct.
Broadway, near Arlington line.	Garden Ct.
Broadway, between Liberty and Willow Aves.	Garden Ct.
Broadway, near City Ledge.	George St.
Bowdoin St., at Fremont Ave.	Giles Pl.
Cedar St., at Lowell Railroad bridge.	Gilman St., corner Walnut St.
Cedar St., opposite Sartwell Ave.	Gilman St., bet. Aldrich and Cross Sts.
Cedar St., opposite No. 14.	Glen St., between Pearl and Flint Sts.
Cedar St., at railroad crossing.	Granite St., opposite Knapp St.
Central St., opposite No. 26.	Harris St., near Beacon St.
Central St., opposite No. 32.	Hanson St., corner Durham St.
Central St., at Lowell Railroad bridge.	Hanson St., corner Skehan St.
Central St., corner Albion St.	Hamlet St.
Central St., opposite Hudson St.	Hamlet St.
Chester Pl.	Hall St.
Chester Ave., opposite No. 19.	Heath St., opposite West St.
Cherry St., between Sartwell Ave. and Elm St.	Heath St., opposite No. 44.
Church St., near Somerville Ave.	Hinckley St., opposite Fiske Ave.
Claremon Ave.	Hillside Ave.
Claremon Ave., near Mead St.	High St., between Boston St. and Prospect Hill Ave.
Clarendon Ave., opposite Western Ave.	
Clark St.	

LOCATION OF INCANDESCENT LIGHTS. — *Continued.*

LOCATION.	LOCATION.
Holt Pl., corner Oak St.	Montrose St., corner Jerome St.
Homer Sq.	Montrose St., corner Sycamore St.
Howe St., corner School St.	Morgan St.
Houghton St., opposite Bolton St.	Myrtle St., between Perkins and Pearl
Irving St.	Sts.
Irving St.	Mystic Ave., corner Austin St.
Irving St.	Mystic Ave., near railroad bridge.
Ivaloo St.	Munroe St., between Walnut and Bige-
James St.	low Sts.
Jaques St., bet. Grant and Temple Sts.	Murdock St.
Joy St., opposite No. 68.	Murdock St.
Joseph St., corner Adrian St.	Oakland Ave., opposite No. 10.
Kent Ct.	Otis St., opposite No. 25.
Kent Ct.	Oxford St., between Trull Lane and
Kent St., at railroad.	School St.
Kingman Ct.	Oxford St., corner Hersey St.
Lake St., corner Church St.	Park St., opposite No. 28.
Lake St., opposite Carleton St.	Park St., near Somerville Ave.
Lake St., between Hawkins and Carle-	Park St., corner Ivaloo St.
ton Sts.	Pearl St., corner Rush St.
Lake St., corner Olive Sq.	Pearl St., between Franklin St. and
Laurel St., opposite No. 27.	Hillside Ave.
Leon St., at Dickinson St.	Pearl-street Pl.
Line St., near Washington St.	Perkins-street Pl.
Line St., between Cooney St. and Smith	Perkins St., corner Mt. Vernon St.
Ave.	Perkins St., opposite Florence St.
Line St., between Cambridge line and	Perkins St., opposite Myrtle St.
Smith Ave.	Pembroke St., near Sycamore St.
Line St., corner Smith Ave.	Pitman St.
Linden St.	Pleasant Ave.
Linden St.	Poplar St., opposite Chestnut St.
London St.	Porter St., corner Williams Ct.
Lowell St., corner Vernon St.	Prospect St., between Oak St. and Cam-
Lowell St., corner Richardson St.	bridge line.
Loring St., corner Somerville Ave.	Putnam St., opposite No. 65.
Loring St., at end.	Quincy St., opposite No. 4.
Maple Ave.	Quincy St., opposite No. 23.
May Pl.	Richdale Ave.
Marshall St., corner Sherman Ct.	School St., between Preston and Os-
Mason Ave.	good Sts.
Medford St., corner Adams St.	Skehan St., corner Dane St.
Medford St., corner Greenville St.	Somerville Ave., in front estate No. 63.
Medford St., at J. P. Squire factory.	Somerville Ave., at Fitchburg Railroad
Medford St., near Highland Ave.	crossing.
Medford St., at Fitchburg railroad.	Somerville Ave., at Belmont St.
Medford St., opp. N. E. Dressed Meat.	Somerville Ave., at Beach St.
Meacham St., opposite Orchard St.	South St., corner Hunting St.
McGregor Pl.	Spring St., near Beach St.
Miller St.	Spring St., bet. Summer and Beach Sts.
Mills St., opposite No. 23.	Summer St., corner Spring St.
Montrose St., opposite No. 21.	Summer St., corner Craigie St.

LOCATION OF INCANDESCENT LIGHTS. — *Concluded.*

LOCATION.	LOCATION.
Summer St., between Harvard and Central Sts.	Virginia St.
Stickney Ave., opposite No. 8.	Washington St., corner Wyatt St.
Stickney Ave., opposite No. 24.	Washington St., between Prospect St. and Somerville Ave.
Sunnyside Ave.	Washington St., between Kingman Ct. and Hawkins Ct.
Summit Ave.	Wallace St.
Sycamore St., opposite Forster st.	Walnut St., corner Veazie St.
Temple St., opposite No. 19.	Walnut St., corner Wellington Ave.
Tenney Ct.	Warwick St.
Thorpe Pl.	Warwick St.
Thorpe Pl.	Warren Ave., corner Sanborn Ave.
Thorndike St., opposite Howard St.	Wesley St., near Pearl St.
Tufts St., corner Dell Pl.	Wesley Park, opposite No. 11.
Vernon St., corner Jenny Lind Ave.	Wesley Park.
Vernon St., opposite Miner St.	Webster St., near Franklin St.
Vernon St., opposite Bartlett St.	Willow Bridge.
Vine St., opposite Tyler St.	Willow Bridge.
Vine St., opposite Hanson St.	Wigglesworth St., opposite Otis St.
Vine St., bet. Beacon and Eliot Sts.	Wyatt St., corner Cook St.
Vine St., opposite Eliot St.	
Vinal Ave., corner Summer St.	

Respectfully submitted,

THOMAS R. ROULSTONE,

Superintendent of Lights.

REPORT
OF THE
COMMITTEE ON PUBLIC PROPERTY.

CITY OF SOMERVILLE.

IN BOARD OF ALDERMEN, January 11, 1893.

Referred to the committee on printing, to be printed in the annual reports.
Sent down for concurrence.

GEORGE I. VINCENT, *Clerk.*

IN COMMON COUNCIL, January 11, 1893.

Concurred in.

CHARLES S. ROBERTSON, *Clerk.*

CITY OF SOMERVILLE.

IN COMMITTEE ON PUBLIC PROPERTY, }
January 2, 1892. }

To the City Council of Somerville : —

The committee on public property presents the following report
for the year 1892:—

POLICE STATION INCIDENTALS ACCOUNT.

CREDIT.

Appropriation	\$3,500 00	
Receipts for rent of hall and court room,	430 00	
	<hr/>	
Total credit		\$3,930 00

DEBIT.

Expenditures:—

For janitor's salary	\$850 00	
gas	697 60	
fuel	117 06	
water	90 70	
repairs and improvements on building and furniture	1,933 49	
incidentals	86 83	
	<hr/>	
Total debit		3,775 68
		<hr/>
Balance unexpended		\$154 32

SCHOOLHOUSE INCIDENTALS ACCOUNT.

CREDIT.

Appropriation	\$10,000 00	
Sale of Union School lot	2,340 00	
Transfer from interest account	1,500 00	
Rental of ward room	115 00	
Receipts for articles sold	22 07	
	<hr/>	
Total credit		\$13,977 07

DEBIT.

Expenditures:—

For repairs	\$6,602 87	
improvements	576 55	
furniture	1,442 67	
repairing furniture and putting down same	252 87	
edgestones and grading	1,056 89	
repairing heating apparatus	1,472 68	
insurance	1,675 00	
repairing blackboards	209 55	
emptying privy-vaults	132 00	
flag-staff	54 25	
heat, rent, etc. (superintend- ent of schools' office)	371 46	
repairing halliards	20 25	
school supplies	718 37	
removing furniture	11 80	
land, Tufts street	2,142 00	
sidewalk assessments	741 21	
sewer assessments	210 41	
books	5 00	
expressing	22 35	
carriage hire	16 00	
	<hr/>	
Total debit		17,734 18
		<hr/>
Amount overdrawn		<u>\$3,757 11</u>

The expenditures at the different schoolhouses were as follows : —

Beach-street.

Improvements	\$456 18	
Repairing heating apparatus	90 37	
Emptying privy vaults	32 00	
Furniture	23 46	
Insurance	33 75	
	<hr/>	\$635 76

Luther V. Bell.

Repairs	\$656 11	
Furniture	64 19	
Repairing blackboards	17 37	
Insurance	367 50	
	<hr/>	1,105 17

Bennett.

Repairs	\$172 13	
Repairing heating apparatus	44 00	
Removing night soil	20 00	
Furniture	33 65	
Sidewalk assessment	107 44	
Insurance	90 00	
	<hr/>	467 22

Bingham.

Repairs	\$26 51	
Furniture	13 92	
Repairing furniture	4 00	
Repairing heating apparatus	43 47	
Repairing blackboards	2 00	
Insurance	9 00	
	<hr/>	98 90

Brastow.

Repairs	\$13 89	
Removing night soil	8 00	
	<hr/>	21 89

<i>Amount carried forward</i>	<hr/>	\$2,328 94
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Amount brought forward \$2,328 94

Burns.

Repairs	\$44 84	
Repairing heating apparatus	8 30	
Repairing furniture	4 00	
Insurance	9 00	
	<hr/>	66 14

Cedar-street.

Repairs	\$270 20	
Repairing heating apparatus	50 71	
Furniture	12 33	
Repairing furniture	5 50	
Removing night soil	24 00	
	<hr/>	362 74

Cummings.

Repairs	\$177 00	
Furniture	13 92	
Repairing furniture	4 00	
	<hr/>	194 92

Davis.

Repairs	\$173 43	
Repairing heating apparatus	18 28	
Repairing furniture	4 75	
	<hr/>	196 46

Edgerly.

Repairs	\$45 46	
Repairing heating apparatus	17 62	
Furniture	37 40	
Repairing furniture	27 75	
Insurance	387 50	
	<hr/>	515 73

Amount carried forward

\$3,664 93

Amount brought forward \$3,664 93

Forster.

Repairs	\$279 24	
Repairing heating apparatus . .	5 30	
Furniture	234 11	
Repairing furniture	39 75	
Sidewalk assessment	126 15	
Insurance	46 50	
	<hr/>	731 05

Franklin.

Repairs	\$351 90	
Repairing heating apparatus . .	86 69	
Furniture	25 57	
Repairing furniture	4 00	
Removing night soil	12 00	
	<hr/>	480 16

Jacob T. Glines.

Repairs	\$90 64	
Furniture	37 83	
Repairing furniture	7 00	
Sidewalk assessment	79 86	
	<hr/>	215 33

Harvard.

Repairs	\$58 81	
Repairing heating apparatus . .	14 54	
Repairing furniture	1 00	
	<hr/>	74 35

High.

Repairs	\$509 50	
Repairing heating apparatus . .	285 16	
Furniture	176 62	
Repairing furniture	17 00	
Repairing blackboards	32 35	
Insurance	262 50	
	<hr/>	1,283 13

Amount carried forward \$6,448 95

Amount brought forward \$6,448 95

Highland.

Repairs	\$344 57	
Repairing heating apparatus . .	98 55	
Furniture	27 00	
Repairing furniture	19 00	
Repairing blackboards	37 06	
Sidewalk assessments	228 16	
	<hr/>	754 34

Jackson.

Repairs	\$232 57	
Repairing heating apparatus . .	26 80	
Repairing furniture	10 50	
Removing night soil	20 00	
Sidewalk assessment	45 34	
	<hr/>	335 21

O. S. Knapp.

Repairs	\$181 59	
Repairing heating apparatus . .	31 20	
Furniture	71 66	
Repairing blackboards	25 93	
	<hr/>	310 38

Lincoln.

Repairs	\$540 67	
Repairing heating apparatus . .	44 33	
Furniture	42 41	
Insurance	50 00	
Sidewalk assessment	154 26	
	<hr/>	831 67

Amount carried forward \$8,680 55

Amount brought forward \$8,680 55

Morse.

Repairs	\$325 99	
Repairing heating apparatus . .	36 28	
Furniture	155 38	
Repairing furniture	16 00	
Repairing blackboards	48 59	
Sewer assessment	129 68	
Insurance	187 50	
	<hr/>	899 42

Charles G. Pope.

Repairs	\$348 55	
Furniture	83 20	
Repairing furniture	17 00	
Edgestones, grading, etc.	1,056 89	
	<hr/>	1,505 64

Prescott.

Repairs	\$1,009 27	
Furniture	110 39	
Repairing furniture	53 62	
Repairing heating apparatus . .	37 75	
Repairing blackboards	18 30	
Insurance	123 75	
	<hr/>	1,353 08

Prospect Hill.

Repairs	\$222 34	
Repairing heating apparatus . .	112 28	
Furniture	252 91	
Repairing furniture	7 00	
Insurance	56 25	
	<hr/>	650 78

Spring Hill.

Improvements	\$120 37	
Sewer assessment	80 73	
Insurance	18 00	
	<hr/>	219 10

Amount carried forward \$13,308 57

Amount brought forward \$13,308 57

Union.

Removing furniture 11 80

Webster.

Repairs	\$527 66	
Repairing heating apparatus (including two furnaces)	421 05	
Furniture	26 72	
Repairing furniture	11 00	
Repairing blackboards	27 95	
Flagstaff	54 25	
Removing night soil	16 00	
Insurance	33 75	
	<hr/>	1,118 38

Superintendent of Schools' Office.

Rent	\$231 00	
Heat	25 00	
Carpet	111 37	
Cleaning carpet	4 09	
	<hr/>	371 46

Total		\$14,810 21
School supplies (brooms, dusters, lanterns, etc.)	\$718 37	
Carriage hire	16 00	
Repairing halliards	20 25	
Ledger	5 00	
Expressing	22 35	
Land, Tufts street, adjoining Davis School	2,142 00	
	<hr/>	
Total		2,923 97
		<hr/>
Total expenditure		\$17,734 18
		<hr/>

SCHOOLHOUSE IN WARD TWO ACCOUNT.

(Washington street.)

CREDIT.

Unexpended balance from 1891	\$856 26	
Transfer from Highland schoolhouse addition account	294 62	
	<hr/>	
Total credit		\$1,150 88

DEBIT.

Expenditure:—

For balance due architects' services (Loring & Phipps)	260 88	
	<hr/>	
Balance unexpended		<u>\$890 00</u>

SCHOOLHOUSE, EDGERLY ADDITION ACCOUNT.

CREDIT.

Appropriation	\$20,000 00
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DEBIT.

Expenditures:—

George M. Starbird, on account of contract	\$10,500 00	
Smith Heating and Ventilating Co., on account of contract	298 50	
Samuel D. Kelley (architect), on account of contract	400 00	
T. Harrington and H. F. White, removing furniture	19 00	
	<hr/>	
Total expenditure		11,217 50
		<hr/>
Balance unexpended		<u>\$8,782 50</u>

EXPENDITURES BY THIS COMMITTEE FROM MISCELLANEOUS ACCOUNT.

City Hall expenses:—

gas	\$61 60	
electric lighting	315 18	
fuel	234 25	
water	16 40	
telephone connections	113 05	
repairs and furniture	945 58	
insurance	187 50	
ice	35 00	
incidentals	97 85	
	<hr/>	\$2,006 41
Preparing rooms for elections and caucuses		227 92
Rent of rooms for elections and caucuses		40 00
Care of rooms for elections and caucuses		76 00
Rental of seven sets of telephone instruments in public buildings from Sept. 1, 1892, to Sept. 1, 1893		105 00
Building band stand		100 00
Carpet, Company M, M. V. M.		141 08
Ballot boxes		55 88
Advertising sale Lincoln School lot		96 00
Incidentals		115 03

City Messenger's team:—

maintenance, including one new horse, \$225.00, less one horse sold	925 95
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City Engineer's team:—

maintenance from April 1, 1892, to December 31, 1892	202 50
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Total	<hr/> \$4,091 77 <hr/>
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POLICE STATION INCIDENTALS ACCOUNT.

At the police station a new shed has been built on the westerly side of the police stable.

The officers' quarters, the court room, the overseers of the poor room, the armory, and the lower hall have been re-frescoed, at an expense of \$1,131.76.

SCHOOLHOUSE INCIDENTALS ACCOUNT.

By an order dated September 29, new sanitaries have been placed in the Beach-street schoolhouse, and the building is now in fair condition.

At the Bell School the walls on the northwesterly side of the building have been strengthened by iron rods being placed through the outside brick walls ; the fence has also been rebuilt and painted.

At the Bennett School the building has been painted outside during the year ; also gravel sidewalks with edgestones have been constructed around the building.

The Brastow schoolhouse has been discontinued during the past year.

At the Cedar-street School new sanitaries have been placed outside of the building, new steps have been built to the entrances of the building, the ceiling and walls have been whitewashed and tinted, and the inside woodwork has been painted.

At the Cummings School the building has been painted outside and slight repairs made.

At the Davis School the basement floor has been concreted.

At the Forster School a brick sidewalk has been constructed on Evergreen avenue ; two rooms have been painted during the year, the ceilings whitened, and the hall ceiling tinted ; one room has been furnished with new desks for the lowest grade of pupils.

At the Glines School edgestones and gravel sidewalks have been constructed.

At the Franklin School the interior of the building has been painted and the ceilings whitened.

At the Harvard School the ceilings and walls have been tinted.

At the High School four recitation rooms and toilet rooms have been painted and the ceilings whitened; the boilers have received new tubes, and a shaking-grate placed under one of the boilers.

At the Highland School the walls and ceilings of the halls were painted and whitened throughout; brick sidewalks and edgestones have been constructed on Highland avenue and Grove street.

At the Jackson School the inside woodwork has been painted, the ceilings whitened, and the southeast side of the roof has been reshingled.

At the Lincoln School the building has been painted outside, a brick sidewalk with edgestones has been constructed, and an inside granite curbing has been laid; concrete walks have also been laid on each side of the building.

At the Morse School the walls of six rooms have been painted, the teachers' toilet rooms have been fitted up, and the office of the principal's room has been furnished with a roll-top desk, chairs, and rugs.

At the Prescott School a portion of the basement floor has been concreted, the walls and ceiling of one of the schoolrooms and the halls have been painted and the ceiling whitened; a new entrance has been made from the hallway to the principal's office.

At the Prospect Hill School a new front fence has been built, and two rooms have been fitted up with new furniture.

At the Charles G. Pope School the grounds have been graded and curbing set on two sides of the building; a new division fence has been placed on the westerly side of the lot.

At the Webster School new furnaces have been placed in the building, the woodwork has been painted, the walls painted, and the ceilings whitened.

EDGERLY SCHOOLHOUSE ADDITION.

By authority of an order dated June 22d, a contract was made with George M. Starbird for an addition of four rooms to the Edgerly schoolhouse, situated on Cross street, in accordance with plans and specifications prepared by Samuel D. Kelley, architect, for the sum of \$16,351. The building has been raised and is now nearly completed. The heating appliances are to be furnished by the Smith Ventilating

and Heating Company. The building when finished will contain sixteen schoolrooms, and will rank among the best in the city.

LAND, TUFTS STREET.

By authority of an order dated June 8th, 8,568 feet of land was purchased of the heirs of Charles Robinson, at twenty-five cents per foot, amounting to \$2,142. This lot joins the Davis School lot, and was secured with a view to the enlarging of the schoolhouse at some future time.

For the committee,

WILLIAM A. HUNNEWELL, *Chairman.*

WILLIAM P. MITCHELL, *Clerk.*

REPORT
OF THE
INSPECTOR OF BUILDINGS.

CITY OF SOMERVILLE.

IN BOARD OF ALDERMEN, January 11, 1893.

Accepted and referred to the committee on printing, to be printed in the annual reports. Sent down for concurrence.

GEORGE I. VINCENT, *Clerk*.

IN COMMON COUNCIL, January 11, 1893.

Concurred in.

CHARLES S. ROBERTSON, *Clerk*.

CITY OF SOMERVILLE.

OFFICE OF INSPECTOR OF BUILDINGS, }
January 1, 1893. }

To the Honorable the Mayor and City Council:—

GENTLEMEN,—As required by the city building ordinance, I have the honor to submit the report of the business of this department for the year ending December 31, 1892.

The total number of buildings, etc., for which permits were granted, and the uses for which they are intended, will be found in the following table:—

	WARDS.				TOTAL.
	1	2	3	4	
Single dwelling-houses	31	109	136	143	419
Dwellings in blocks	2	29	10	10	51
Additions and alterations to buildings . . .	15	27	35	19	96
Stables	5	15	22	11	53
Factories	2	1	—	—	3
Carriage-houses	2	1	1	1	5
Churches	—	—	—	1	1
Shops	—	—	1	—	1
Schoolhouses	—	1	—	—	1
Public hall with stores	—	—	1	—	1
Apartment-houses	—	2	—	1	3
Bakery	—	—	1	—	1
Stores	1	—	1	1	3
Car-house	1	—	—	—	1
Offices	2	—	—	2	4
Office with store	—	—	1	—	1
Undertakers' office and stable	—	—	1	—	1
For storage	—	3	1	2	6
	61	188	211	191	651

The attention of the inspector of buildings has been called in the following cases where violations of the ordinance occurred or the public safety was endangered:—

Partition wall unsafe (new building)	.	.	.	.	.	.	.	1
Brick walls substituted for wooden	.	.	.	.	.	.	.	1
Strength of floor timbers (new building)	.	.	.	.	.	.	.	2
Strength of floor timbers (old building)	.	.	.	.	.	.	.	2
Unsafe brick piers	.	.	.	.	.	.	.	9
Unsafe chimneys (new building)	.	.	.	.	.	.	.	2
Unsafe fire-places	.	.	.	.	.	.	.	3

The total number of permits to do plumbing was 483, covering 513 buildings. The soil-pipes in 334 buildings were tested with the water test. Some joints were found that were not tight, and some sections of pipe cracked; but, on the whole, there has been a great improvement in the manner of doing plumbing over that of the previous year.

Respectfully submitted,

THOMAS R. ROULSTONE,

Inspector of Buildings.

REPORT
OF THE
SUPERINTENDENT OF PUBLIC BUILDINGS.

CITY OF SOMERVILLE.

IN BOARD OF ALDERMEN, January 11, 1893.

Referred to the committee on printing, to be printed in the annual reports.
Sent down for concurrence.

GEORGE I. VINCENT, *Clerk.*

Concurred in.

IN COMMON COUNCIL, January 11, 1893.

CHARLES S. ROBERTSON, *Clerk.*

CITY OF SOMERVILLE.

OFFICE OF THE SUPERINTENDENT OF PUBLIC BUILDINGS, }
January 1, 1893. }

To the Honorable the Mayor and City Council:—

GENTLEMEN,—In compliance with the city ordinance No. 50, Sec. 8, this report is respectfully submitted.

The number of public buildings under my care and over which I have supervision of the repairs and alterations is twenty-eight. The following is a brief description of some of the repairs and alterations in same:—

Beach-street School.—Repairs to plastering; walls and ceilings tinted and whitened; sanitaries constructed in basement for use of Beach-street and Spring Hill schools; door cut through from boys' yard to basement; back steps rebuilt; drain built to sewer; fence repaired.

Luther V. Bell School.—Iron rods have been put into the rear walls to strengthen the building; front fence removed; rear and side fences rebuilt and repaired; repairs have been made to floors, roof, stairs, etc.

Bennett School.—The building was painted on the outside, two coats; repairs were made to platform, steps, and janitor's rooms. There is great need of new plumbing in basement.

Bingham School.—Slight repairs have been made to roof, heating apparatus, etc. The woodwork on the outside of the building should be painted.

Brastow School.—The school has not been in use for school purposes during the year.

Burns School.—The building has had but slight repairs; the brickwork to boiler was repaired and basement whitewashed. The outside woodwork of the building needs to be painted.

Cedar-street School.—The inside of the building was renovated by paint and whitewash; chimneys repaired; sanitariums improved and rebuilt; shed new silled; walks repaired; and new steps built.

Cummings School.—The building was painted two coats on the outside; slight repairs to woodwork, furnaces, and water closets; basement whitewashed.

Davis School.—Cellar floor concreted; a door cut in brick partition to girls' sanitariums from basement.

Elderly School.—This building has been raised from its foundation and four rooms added. It is to be heated by the Smith system, with sanitariums and ventilation complete. At the present time the building is unfinished.

Forster School.—The hall and two rooms have been tinted and painted; furniture in two rooms dressed off and varnished; repairs made to roof, etc.

Franklin School.—The walls of the rooms painted and ceiling whitened; drain relaid; teachers' water closet put in cellar.

Jacob T. Glines School.—Slight repairs have been made on the building; one of the connecting rooms furnished with fifty No. 1 lid desks.

Harvard School.—The interior of this building has been renovated by paint and whitewash; front fence removed. This building should be painted outside.

High School.—The walls and ceilings of four recitation rooms and toilet room were painted and whitened; toilet room furnished with carpet, etc.; boilers retubed and new shaking grate put in by the Continental Grate Company.

Highland School.—The halls were painted and whitened; cold air boxes on east and south sides changed; door cut through from basement to girls' yard.

Jackson School.—The inside woodwork, walls, and ceilings have been painted and whitened; one side of roof resingled.

O. S. Knapp School.—Slight repairs have been made on the building; door cut through from boys' basement to stairs.

Lincoln School.—The outside of the building has been painted; walls and ceilings painted and whitened; slight repairs to heating apparatus.

Morse School.—The walls and ceilings of four rooms have been painted and whitened; office and retiring room fitted up; tin roof painted.

Charles G. Pope School.—Sink put in basement for janitor's use; new division fence built.

Prescott School.—The walls in the hall, office, and one room were painted; an entrance made to master's office from the hall; new slate blackboard in master's schoolroom; basement partly concreted; desks and chairs of two rooms dressed off and varnished; stairs strengthened.

Prospect Hill School.—Repairs to fences and slight general repairs to building; one room has been fitted up with adjustable furniture and one room with kindergarten furniture; all rooms are now in use.

Spring Hill School.—The schoolroom that was unused in 1891 has been fitted up with kindergarten furniture and is now in service; repairs have been made to chimney, sink, drain, etc.

Union School.—This school building has been sold, together with the lot.

Webster School.—Walls, ceilings, and inside woodwork painted and whitened; stairs strengthened; two new furnaces put in, taking place of stoves; closet built for supplies; flagstaff put on building.

City Hall.—Slight repairs have been made; a window put in partition; telephone closet built; lockers built in city clerk's office.

Police Station.—Hard wood floors laid in front and back offices; walls and ceilings painted and woodwork varnished in front and back offices, lower hall, guard room, court room, office of the overseers of the poor, and officers' rooms, Company M, 8th Regiment, M. V. M.; eight additional closets built in guard room; alterations in basement, by changing two rooms into one large room; putting in water closet, sink, and bunk for accommodation of tramps; carriage shed built in rear of station.

In my report I have named only some of the larger improvements and repairs that I have been called upon to make on the buildings enumerated; but in addition repairs have been made to black-

boards, furniture, stoves, furnaces, electric bells, roofs, drains, stairs, floors, windows, boilers, plumbing, sanitariums, walks, etc.

Respectfully submitted,

THOMAS R. ROULSTONE,

Superintendent of Public Buildings,

REPORT
OF THE
INSPECTOR OF MILK.

CITY OF SOMERVILLE.

IN COMMON COUNCIL, January 11, 1893.

Accepted and referred to the committee on printing, to be printed in the annual reports. Sent down for concurrence.

GEORGE I. VINCENT, *Clerk.*

IN BOARD OF ALDERMEN, January 11, 1893.

Concurred in.

CHARLES S. ROBERTSON, *Clerk.*

CITY OF SOMERVILLE.

OFFICE OF THE INSPECTOR OF MILK, }
January 1, 1893. }

To His Honor the Mayor and Gentlemen of the City Council:—

GENTLEMEN, — As inspector of milk for the city of Somerville, the following annual report is respectfully submitted:—

During the past year two hundred and thirty-two (232) licenses to sell milk in this city have been issued to the citizens of Somerville and vicinity. Forty-three (43) registers to sell milk from stores have also been given. There are at present about two hundred and fifty (250) registers in force. Counting stores and milkmen together, there are engaged in the sale of milk nearly five hundred (500) of our citizens. I am glad to affirm, from personal acquaintance and knowledge of these people, that the milk business is conducted as honorably and honestly as any other business in this city. Our milkmen furnish as good a quality of milk as can be found in any city in the State.

Nearly three hundred (300) samples have been tested, with very satisfactory results. During all the years of my service as inspector, I have had only three complaints from private families in regard to their receiving poor milk from milkmen; and the people all know that there is a milk inspector in Somerville.

The number of persons engaged in the sale of oleomargarine and butterine is very limited. These imitations do not appear to find a market in this community. Only eleven (11) licenses have been given.

For licenses and registers during the past year one hundred and forty-three dollars (\$143) have been paid into the city treasury.

Very respectfully,

THOMAS CUNNINGHAM,

Inspector of Milk.

REPORT
OF THE
INSPECTOR OF PROVISIONS
AND OF
ANIMALS INTENDED FOR SLAUGHTER
OR
KEPT FOR THE PRODUCTION OF MILK.

CITY OF SOMERVILLE.

IN BOARD OF ALDERMEN, December 28, 1892.

Accepted and referred to the next City Council, to be printed in the annual reports. Sent down for concurrence.

GEORGE I. VINCENT, *Clerk.*

IN COMMON COUNCIL, December 28, 1892.

Concurred in.

CHARLES S. ROBERTSON, *Clerk.*

CITY OF SOMERVILLE.

OFFICE OF THE INSPECTOR OF PROVISIONS AND OF ANIMALS INTENDED FOR SLAUGHTER OR KEPT FOR THE PRODUCTION OF MILK, }
December 15, 1892. }

To His Honor the Mayor and Members of the City Council:—

GENTLEMEN,—Under your commission and the letter of instructions from the “State Cattle Commission,” I am able to give you a statement of the work accomplished by me to date. The work of inspection commenced the latter part of September. Since that time I have made a thorough inspection of the entire city of Somerville.

I have found four hundred and forty-two (442) neat cattle, owned by one hundred and sixteen (116) citizens: three hundred and seventy-four cows producing milk, forty-one cows dry, three bulls, twenty young stock, four fattening stock. All of these animals were free from any contagious diseases. Only three were temporarily sick from local causes. These cattle are distributed from one end of the city to the other, and each one has been personally examined by me. This same report has been made to the Cattle Commission, and it was satisfactory to them.

I have also made an examination of three slaughtering establishments in this city, two of which did not really require an examination, as they are fully reported by the State officials. John P. Squire’s report that they kill, on an average, 18,000 hogs per week. The North Packing Company report the same in number of hogs. The two establishments together kill about 1,800,000 hogs annually. Another establishment, 104 North street, West Somerville, Hartz

Gunsenhiser, proprietor, kills beef cattle and calves, averaging twenty-five animals per week of four working days. This man kills almost entirely for the Jewish population of Boston. His premises are kept clean and in order.

The North Packing Company have commenced killing sheep and lambs. They will be in full working order by January 1st, 1893. Assuming that a large proportion of the parties engaged in the different kinds of business described in Chapter 58, Section 2, Public Statutes, do not keep posted in regard to the laws and liabilities, I have, as a notice and caution, sent to each one a copy of the enclosed card, so that in case of prosecution they cannot plead a lack of knowledge : —

SOMERVILLE, November 17, 1892.

The following sections of Chapter 58 are published by the inspector of provisions and animals intended for slaughter, for the information and caution to all dealers in *meats, fish, vegetables, produce, fruits, and provisions of all kinds* : —

CHAPTER 58, SECTION 5, PUBLIC STATUTES OF THE STATE OF MASSACHUSETTS.

Whoever knowingly sells, or offers or exposes for sale, or has in his possession with intent to sell for food, any diseased animal, or any tainted, diseased, corrupted, decayed, or unwholesome meat, fish, vegetables, produce, fruits, or provisions of any kind whatever, shall be punished by imprisonment in jail for not more than sixty days, or by fine of not more than one hundred dollars.

Attention is also called to Section 3 of the same chapter : —

Said inspector may inspect all veal found in said cities or towns, or offered or exposed for sale, or kept with intent to sell therein, and if said veal is, in the judgment of the inspector, that of a calf killed under four weeks old, he shall seize the same and cause it to be destroyed or disposed of as provided in the preceding section, subject, however, to the provisions therein contained concerning appeal and the disposal of moneys.

THOMAS CUNNINGHAM,

Inspector of Animals and Provisions.

3 Oak street, Somerville, Mass.

These cards have been sent, or personally delivered, to seventy-seven grocers, forty-four grocers and provision dealers, eighteen provision stores, twelve fish stores, ten fruit dealers; total number, 161.

This list covers about all the places where there is a chance for transgression of the law.

Hawkers and pedlers are not mentioned in this law, still it is undoubtedly a part of my duty to keep an eye on them. I understand, from the Cattle Commission, that the inspection of cows and cattle must be repeated every three months. There must also be a constant supervision of all cattle that may be brought to the city from day to day.

Respectfully submitted,

THOMAS CUNNINGHAM,

Inspector.

REPORT
OF THE
CITY SOLICITOR.

CITY OF SOMERVILLE.

IN BOARD OF ALDERMEN, March 8, 1893.

Accepted and referred to the committee on printing, to be printed in the annual reports. Sent down for concurrence.

GEORGE I. VINCENT, *Clerk*.

IN COMMON COUNCIL, March 8, 1893.

Concurred in.

WILLIAM P. MITCHELL, *Clerk pro tem*.

CITY OF SOMERVILLE.

March 8, 1893.

To the Honorable the Mayor and the City Council:—

I respectfully submit my report as city solicitor for the year ending December 31, 1892.

The following are the cases now pending in the courts to which the city of Somerville is a party:—

1. *Parker vs. Somerville*—Before County Commissioners of Middlesex County. Damages on account of land alleged to have been taken for a sewer by the city.

2. *Squire vs. Somerville*—Before Superior Court in Middlesex County. Damages for conversion of box drain.

3. *Boston & Lowell Railroad Company vs. Somerville*—Before Superior Court in Middlesex County. Petition in regard to repairs and reconstruction of bridges across railroad location in Somerville and assessment of expenses thereof.

4. *Philbrook vs. Somerville*—Before United States Circuit Court. Action for damages for alleged violation of the Knibbs patent for a relief valve on steam fire-engines. This action was commenced May 20, 1887, and similar actions were brought against other cities. Somerville and the other defendant cities put their cases into the hands of Livermore & Fish, patent solicitors. At a hearing, November 14, 1888, the court decided for the defendant, and the appeal from that decision is now pending.

5. *Norwood vs. Somerville*—Before Supreme Judicial Court on exceptions. Action for personal injuries alleged to have been received upon Cedar street, November 2, 1889.

6. *Kelly vs. Somerville*—Before Superior Court in Middlesex

County. Action for personal injuries alleged to have been received upon Somerville avenue, November 25, 1890.

7. *Williams vs. Somerville*—Before Superior Court in Middlesex County. Action for injuries alleged to have been caused to cattle, July 3, 1891, by the agents of the State Board of Agriculture for the extermination of the gypsy moth.

8. *John F. Cole, Collector, vs. Charles H. North*—Before Superior Court in Suffolk County. Action for recovery of taxes.

9. *McCarthy vs. Somerville*—Before Superior Court in Middlesex County. Action for personal injuries alleged to have been received upon Somerville avenue, October 31, 1892.

10. *Somerville vs. Fitchburg and Albany Railroad Companies*—Petition for appointment of commissioners for abolition of grade crossings on Somerville avenue.

The following cases have been disposed of:—

1. *Brooks vs. Somerville*—Before Superior Court in Middlesex County. Action for personal injuries alleged to have been received upon Summer street, January 27, 1891. Settled by payment (after verdict in court), for \$2,700.

2. *Boston vs. Somerville*—Before Superior Court in Middlesex County. Appeal from assessment of taxes. Settled by payment of \$140 to plaintiff.

3. *Somerville vs. T. P. Beal, Receiver of Maverick Bank*—Tried in United States Circuit Court and in Court of Appeals. Judgment for the city for \$21,170.40, which was paid to the city.

4. *Hadley vs. Somerville*—Before County Commissioners of Middlesex County. Appeal from assessment of taxes. Appeal dismissed.

It thus appears that the total amount expended by the city during the year on account of actions brought against it was \$2,840.

In most of the cases which came before the committee on claims, the petitioners were given leave to withdraw, and as we have not heard from such cases since, I need not trouble you with a recital of them.

All which is respectfully submitted,

S. Z. BOWMAN,

City Solicitor.

REPORT
OF THE
CITY CLERK.

CITY OF SOMERVILLE.

IN BOARD OF ALDERMEN, January 25, 1893.

Accepted and referred to the committee on printing, to be printed in the annual reports. Sent down for concurrence.

GEORGE I. VINCENT, *Clerk*.

IN COMMON COUNCIL, January 27, 1893.

Concurred in.

GEORGE I. VINCENT, *Clerk pro tem*.

CITY OF SOMERVILLE.

OFFICE OF THE CITY CLERK, }
January 25, 1893. }

To the Honorable the Mayor and the City Council:—

GENTLEMEN,—The following is respectfully submitted as the twenty-first annual report of the city clerk of Somerville, and is for the year ending December 31, 1892:—

CASH.

The receipts and payments were as follows:—

RECEIPTS.

Balance from year 1891, being for dog
licenses issued in December, 1891,—

6 males at \$2.00	\$12 00
-----------------------------	---------

Less city clerk's fees paid to the city treasurer in December, 1891, 6 at .20	1 20
---	------

\$10 80

For dog licenses issued in 1892:—

1,205 males at \$2.00	\$2,410 00
---------------------------------	------------

127 females at 5.00	635 00
-------------------------------	--------

3,045 00

<i>Amount carried forward</i>	<u>\$3,055 80</u>
---	-------------------

<i>Amount brought forward</i>		\$3,055 80
recording mortgages, assignments, etc.,		
649 papers	\$398 75	
marriage certificates . 531 at \$0.50	265 50	
furnishing copies of records	5 25	
recording and posting naturalization		
notices 3 at \$0.50	1 50	
licenses :—		
to collect junk 45 at 2.00	90 00	
(apothecaries') to sell liquor, 22 at 1.00	22 00	
for billiard and pool tables (three		
licenses) 11 tables at 2.00	22 00	
to auctioneers 16 at 2.00	32 00	
for intelligence offices 5 at 2.00	10 00	
to sell fireworks 64 at 1.00	64 00	
for amusements 23 at 1.00	23 00	
	<hr/>	934 00
Total receipts		\$3,989 80

PAYMENTS.

To Joseph O. Hayden, county treasurer,
June 1 and Dec. 1, receipts for dog
licenses from Dec. 1, 1891, to Nov.
30, 1892, inclusive,—

1,209 males at \$2.00	\$2,418 00	
127 females at 5.00	635 00	
	<hr/>	\$3,053 00
Less city clerk's fees, 1,336 at .20 . .	267 20	
	<hr/>	\$2,785 80
To John F. Cole, city treasurer, monthly, city clerk's fees for issuing dog licenses, 1,332 at .20	\$266 40	
All of the "receipts" above speci- fied, except for dog licenses	934 00	
	<hr/>	1,200 40
Total payments		\$3,986 20

Balance January 1, 1893:—

receipts for dog licenses issued in
December, —

2 males at 2.00	\$4 00	
Less city clerk's fees paid to city treasurer 2 at .20	40	
	<hr/>	\$3 60

Of the amount in the hands of the receiver of the
Maverick National Bank, January 1, 1892, as
stated in my last annual report, viz. . . . \$1,484 66

dividends have been received as follows:—

January 19, 1892, 40 per cent. . . .	\$593 86	
February 25, 1892, 20 “ “	296 93	
April 18, 1892, 15 “ “	222 70	
June 8, 1892, 5 “ “	74 23	
	<hr/>	1,187 72

Balance in hands of receiver January 1, 1893 . \$296 94

All of these dividends have been paid, as soon as received, to
the county treasurer.

BIRTHS.

Number of births in Somerville in 1892 registered	1,158	
More than previous year	2	
Males	602	
Females	556	
	<hr/>	1,158
Born of American parents	445	
“ “ foreign “	470	
“ “ American father and foreign mother	129	
“ “ foreign father and American mother	112	
“ “ parents of unknown nationality	2	
	<hr/>	1,158
Number of cases of twins	11	

MARRIAGES.

Number of intention certificates issued	530
More than previous year	53
Marriages registered	544
More than previous year	49
Both parties American	267
“ “ foreign	151
American groom and foreign bride	65
Foreign groom and American bride	61
	—544 couples.

First marriage of	987
Second “ “	86
Third “ “	15
	—544 couples.

Oldest groom aged	73
“ bride “	63
Youngest groom aged	18
“ bride “	16

Youngest couple aged,—

Groom	19
Bride	17

DEATHS.

Number of deaths in Somerville in 1892	718
Less than previous year	63
Males	329
Females	389
	— 718

Under 10 years of age	223	
Between 10 and 20 years of age	27	
" 20 " 30 " " " 	58	
" 30 " 40 " " " 	59	
" 40 " 50 " " " 	58	
" 50 " 60 " " " 	59	
" 60 " 70 " " " 	89	
" 70 " 80 " " " 	83	
" 80 " 90 " " " 	50	
" 90 " 100 " " " 	10	
Of unknown age	2	
	<hr/>	718
Age of oldest person deceased		98
Born in Somerville	193	
" " other places in the United States	319	
Of foreign birth	198	
Birthplace unknown	8	
	<hr/>	718
Number of deaths in January	118	
" " " " February	58	
" " " " March	55	
" " " " April	51	
" " " " May	54	
" " " " June	56	
" " " " July	64	
" " " " August	58	
" " " " September	54	
" " " " October	56	
" " " " November	47	
" " " " December	47	
	<hr/>	718
The number of still-births recorded during the year was		50

The causes of death may be found in the report of the Board of Health.

VOTERS.

MEN'S LISTS.

WARD.	PRECINCT.	Dec. 1, 1891.	Added in Sept., 1892.	Total.	Re- vised Lists of Oct. 1, 1892.	Added in Oct., 1892.	Nov. 1, 1892.	Net Re- duc- tion in Nov., 1892.	Dec. 1, 1892.	Voted Nov. 8, 1892.	Voted Dec. 6, 1892.
Ward 1 . .	Precinct 1 .	313	3	316	280	105	385	-	385	356	259
" 1 . .	" 2 .	335	1	336	280	109	389	3	386	357	260
" 1 . .	" 3 .	324	1	325	289	152	441	2	439	410	276
" 1 . .	" 4 .	341	3	344	258	187	445	4	441	412	331
		1,313	8	1,321	1,107	553	1,660	9	1,651	1,535	1,126
Ward 2 . .	Precinct 1 .	444	2	446	415	148	561	1	560	533	409
" 2 . .	" 2 .	479	7	486	456	141	597	-	597	566	404
" 2 . .	" 3 .	257	3	260	232	118	350	-	350	324	241
" 2 . .	" 4 .	370	6	376	333	205	538	-	538	512	336
" 2 . .	" 5 .	311	3	314	286	120	406	4	402	377	287
		1,861	21	1,882	1,722	730	2,452	5	2,447	2,312	1,677
Ward 3 . .	Precinct 1 .	438	3	441	412	211	623	-	623	572	352
" 3 . .	" 2 .	345	2	347	322	136	458	5	453	433	246
" 3 . .	" 3 .	470	2	472	431	126	557	5	552	528	363
" 3 . .	" 4 .	276	4	280	274	147	421	-	421	381	245
		1,529	11	1,540	1,439	620	2,059	10	2,049	1,914	1,206
Ward 4 . .	Precinct 1 .	340	1	341	308	126	434	-	434	408	282
" 4 . .	" 2 .	238	1	239	221	129	350	2	348	333	195
" 4 . .	" 3 .	262	1	263	254	133	387	2	385	366	248
" 4 . .	" 4 .	395	6	401	368	176	544	1	543	521	328
		1,235	9	1,244	1,151	564	1,715	5	1,710	1,628	1,053
City . . .	. . . . .	5,938	49	5,987	5,419	2,467	7,886	29	7,857	7,389	5,062

WOMEN'S LISTS.

WARD.	PRECINCT.	Dec. 1, 1891.	Revised Lists of Nov. 14, 1892.	Added in Novem- ber, 1892.	Decem- ber 1, 1892.	Voted Decem- ber 6, 1892.
Ward 1	Precinct 1	5	3	3	6	4
" 1	" 2	9	9	1	10	2
" 1	" 3	5	5	4	9	4
" 1	" 4	-	-	-	-	-
		19	17	8	25	10
Ward 2	Precinct 1	26	16	5	21	3
" 2	" 2	14	13	11	24	11
" 2	" 3	1	-	1	1	-
" 2	" 4	2	2	2	4	1
" 2	" 5	3	3	2	5	2
		46	34	21	55	17
Ward 3	Precinct 1	4	4	1	5	-
" 3	" 2	14	14	-	14	-
" 3	" 3	20	15	8	23	6
" 3	" 4	6	6	1	7	2
		44	39	10	49	8
Ward 4	Precinct 1	6	5	7	12	6
" 4	" 2	4	4	2	6	3
" 4	" 3	5	4	1	5	2
" 4	" 4	11	8	5	13	6
		26	21	15	36	17
City . . . . .	. . . . .	135	111	54	165	52

WAR RECORDS.

I renew the recommendation made in my last annual report, that measures be taken to provide a record of the services rendered in the late war by those who went from Somerville.

The public naturally expect to find such a record in the possession of every city and town.

The expense of compiling it would be small, and while it would, of necessity, be incomplete, yet it would be of great interest, and could be added to from time to time, as new material should become available.

The longer this work is postponed, the more imperfect will be its results, as every year reduces the number of those capable of giving the necessary information.

GEORGE I. VINCENT,

City Clerk.

CITY GOVERNMENT AND OFFICERS FOR 1893.

CITY GOVERNMENT AND OFFICERS FOR 1893.

MAYOR.

WILLIAM H. HODGKINS,
188 Central Street.

BOARD OF ALDERMEN.

WILLIAM L. BARBER, *President*.

WARD ONE.

EDRIC ELDRIDGE	.	.	.	.	.	88 Pearl Street.
CHARLES B. SANBORN	.	.	.	.	.	4 Austin Street.

WARD TWO.

FRANK E. FITTS	.	.	.	.	.	17 Pleasant Avenue.
FRANKLIN J. HAMBLIN	.	.	.	.	.	30 Walnut Street.

WARD THREE.

WILLIAM L. BARBER	.	.	.	.	.	36 Marshall Street.
JOHN ANDREWS	.	.	.	.	.	34 Albion Street.

WARD FOUR.

CHARLES A. G. WINTHER	.	.	.	.	.	408 Highland Avenue.
FRANKLIN F. PHILLIPS	.	.	.	.	.	211 Holland Street.

CLERK.

GEORGE I. VINCENT.

COMMON COUNCIL.FRED W. GILBERT, *President.***WARD ONE.**

ISAIAH H. WILEY	.	.	.	.	54 Mt. Vernon Street.
HERBERT E. MERRILL	.	.	.	.	44 Florence Street.
LEWIS STOCKBRIDGE	.	.	.	.	33 Pinckney Street.
WILFRED B. RICH	.	.	.	.	13 Franklin Street.

WARD TWO.

FRED W. GILBERT	.	.	.	.	101 School Street.
GEORGE B. CLARKE	.	.	.	.	31 Berkeley Street.
ARTHUR W. HAYNES	.	.	.	.	11 Parker Street.
FRANK W. KAAH	.	.	.	.	12 Pleasant Avenue.

WARD THREE.

CALVIN H. WHITNEY	.	.	.	.	68 Gilman Street.
LEONARD B. CHANDLER	.	.	.	.	45 Jaques Street.
G. FRANKLIN WILKINS	.	.	.	.	98 Central Street.
GEORGE H. RUSS	.	.	.	.	28 Montrose Street.

WARD FOUR.

FRANKLIN E. HUNTRESS	.	.	.	.	318 Elm Street.
J. WILLARD JONES	.	.	.	.	217 Beacon Street.
FREDERICK A. P. FISKE	.	.	.	.	52 Cherry Street.
BENJAMIN J. DOWNS	.	.	.	.	52 Claremon Street.

CLERK.

CHARLES S. ROBERTSON.

JOINT STANDING COMMITTEES OF THE CITY COUNCIL.

ACCOUNTS.—Aldermen Hamblin, Winther; Councilmen Merrill, Wilkins, Clarke.

CITY ENGINEERING.—Aldermen Barber, Sanborn; Councilmen Wilkins, Haynes, Downs.

CLAIMS.—His Honor the Mayor; Alderman Hamblin; the President of the Common Council; Councilmen Rich, Fiske.

FINANCE.—His Honor the Mayor; Aldermen Fitts, Phillips; the President of the Common Council; Councilmen Stockbridge, Whitney, Kaan, Fiske.

FIRE DEPARTMENT.—Aldermen Fitts, Phillips; Councilmen Wiley, Jones, Wilkins.

FUEL AND STREET LIGHTS.—Aldermen Sanborn, Winther; Councilmen Jones, Haynes, Russ.

HIGHWAYS.—Aldermen Barber, Sanborn; Councilmen Wiley, Clarke, Downs.

LEGISLATIVE MATTERS.—His Honor the Mayor; Alderman Barber; the President of the Common Council; Councilmen Fiske, Chandler.

ORDINANCES.—Aldermen Phillips, Hamblin; Councilmen Stockbridge, Huntress, Russ.

PRINTING.—Aldermen Hamblin, Eldridge; Councilmen Whitney, Huntress, Merrill.

PUBLIC GROUNDS.—Aldermen Winther, Fitts; Councilmen Stockbridge, Haynes, Chandler.

PUBLIC PROPERTY.—Aldermen Eldridge, Andrews; Councilmen Huntress, Kaan, Rich.

SOLDIERS' RELIEF.—Aldermen Andrews, Eldridge; Councilmen Jones, Clarke, Russ.

WATER.—Aldermen Andrews, Phillips; the President of the Common Council; Councilmen Rich, Downs.

STANDING COMMITTEES OF THE BOARD OF ALDERMEN.

ELECTIONS. — Aldermen Phillips, Fitts, Barber.

ENROLLED ORDINANCES. — Aldermen Winther, Eldridge, Hamblin.

LICENSES. — Aldermen Sanborn, Andrews, Phillips.

POLICE. — Aldermen Fitts, Sanborn.

SEWERS. — Aldermen Sanborn, Andrews, Winther.

STATE AID. — Aldermen Eldridge, Hamblin, Andrews, Winther.

SPECIAL BUILDING PERMITS. — Aldermen Barber, Fitts.

STANDING COMMITTEES OF THE COMMON COUNCIL.

ELECTIONS AND RETURNS. — Councilmen Wiley, Kaan, Chandler.

ENROLLED ORDINANCES AND RESOLUTIONS. — Councilmen Merrill, Whitney, Fiske.

SCHOOL COMMITTEE.

WILLIAM H. HODGKINS, Mayor, Chairman, *ex officio*.

FRED W. GILBERT, President of the Common Council, *ex officio*.

(Term, three years.)

WARD ONE.

S. NEWTON CUTLER (elected 1891).

SANFORD HANSCOM, M. D. (elected 1890).

GEORGE S. POOLE (elected 1892).

WARD TWO.

THOMAS M. DURELL, M. D. (elected 1890).

ALVAH B. DEARBORN, M. D. (elected 1891).

HERBERT A. CHAPIN (elected 1892).

WARD THREE.

NORMAN W. BINGHAM (elected 1891).

QUINCY E. DICKERMAN (elected 1892).

HELEN J. SANBORN (elected 1890).

WARD FOUR.

GILES W. BRYANT, M. D. (elected 1892).

MARTIN W. CARR (elected 1890).

BENJAMIN G. BROWN (elected 1891).

CLARENCE E. MELENEY, *Superintendent and Secretary*.

ASSESSORS.

(Term, three years.)

BENJAMIN F. THOMPSON (term expires 1896).

GEORGE W. HADLEY (term expires 1894).

SAMUEL T. RICHARDS (term expires 1895).

Clerk of Assessors, ALBERT B. FALES.

ASSISTANT ASSESSORS.

(Term, one year.)

WARD ONE.

EDWARD G. WISWELL.

WARD TWO.

DAVID A. SANBORN.

WARD THREE.

EDGAR T. MAYHEW.

WARD FOUR.

HARRY A. TRUE.

BOARD OF HEALTH.

(Term: City Physician, three years; other members, two years.)

THOMAS M. DURELL, M. D., Chairman (term expires 1895).

ALVAH B. DEARBORN, M. D., City Physician (term expires 1895).

ALVANO T. NICKERSON (term expires 1894).

Clerk, WILLIAM P. MITCHELL.

Inspector, CALEB A. PAGE.

OVERSEERS OF THE POOR.

Office, Police Building, Bow Street.

WILLIAM H. HODGKINS, Mayor, Chairman, *ex officio*.

(Term, four years.)

CHARLES G. BRETT (term expires 1893).

EDWARD B. WEST (term expires 1895).

NATHAN H. REED (term expires 1894).

JAMES G. HINCKLEY (term expires 1896).

Agent, CHARLES C. FOLSOM.

SOMERVILLE MYSTIC WATER BOARD.

Office, Prospect Street, corner Somerville Avenue.

(Term, three years.)

GEORGE D. WEMYSS (term expires 1894),
5 Austin Street.

GEORGE A. KIMBALL (term expires 1895),
5 Munroe Street.

WILLIAM FRANKLIN HALL (term expires 1896),
345 Broadway.

NATHANIEL DENNETT, *Supt. Water Works*.

FRANK E. MERRILL, *Clerk*.

REGISTRARS OF VOTERS.

(Term: City Clerk, one year; other members, three years.)

CROMWELL G. ROWELL, Chairman (term expires 1894).

CHARLES P. LINCOLN (term expires 1895).

CHARLES E. PARKS (term expires 1896).

GEORGE I. VINCENT, *City Clerk*.

TRUSTEES OF THE PUBLIC LIBRARY.

(Term, three years.)

CHARLES S. LINCOLN, Chairman (term expires 1894).

CHARLES A. WEST, Secretary (term expires 1895).

JAMES E. WHITAKER (term expires 1896).

JOHN B. VIALI (term expires 1896).

J. HENRY FLITNER (term expires 1895).

CHRISTOPHER E. RYMES (term expires 1894).

ELIJAH C. CLARK (term expires 1895).

CHARLES H. BROWN (term expires 1894).

CHARLES A. WEST (term expires 1895).

J. FRANK WELLINGTON (term expires 1896).

HARRIET A. ADAMS, *Librarian*.

CITY OFFICERS.

CITY CLERK AND CLERK OF BOARD OF ALDERMEN.

GEORGE I. VINCENT.

CITY TREASURER AND COLLECTOR OF TAXES.

JOHN F. COLE.

MESSENGER TO CITY COUNCIL.

JAIRUS MANN.

CITY SOLICITOR.

SELWYN Z. BOWMAN.

CITY AUDITOR.

CHARLES S. ROBERTSON.

CITY ENGINEER.

HORACE L. EATON.

SUPERINTENDENT OF STREETS.

THOMAS H. EAMES.

**INSPECTOR OF BUILDINGS AND SUPERINTENDENT OF
PUBLIC BUILDINGS.**

THOMAS R. ROULSTONE.

CHIEF OF POLICE.

MELVILLE C. PARKHURST.

CHIEF ENGINEER OF THE FIRE DEPARTMENT.

JAMES R. HOPKINS.

SUPERINTENDENT OF ELECTRIC LINES AND LIGHTS.

LEIGHTON W. MANNING.

CITY PHYSICIAN.

ALVAH B. DEARBORN, M. D.

INSPECTOR OF MILK AND VINEGAR.

THOMAS CUNNINGHAM.

CLERK OF COMMITTEES.

WILLIAM P. MITCHELL.

CLERK OF ASSESSORS.

ALBERT B. FALES.

Suitable Person to Cause to be Properly Interred the Bodies of
Honorably Discharged Soldiers, Sailors, and Marines,
Under Chapter 395, Acts of 1889.

JESSE J. UNDERHILL.

CONSTABLES.

JAIRUS MANN.	WILLIAM D. HAYDEN.
ROBERT R. PERRY.	JOSEPH J. GILES.
CHARLES C. FOLSOM.	DENNIS KELLEY.
EDWARD MCGARR.	CHARLES L. ELLIS.
CHRISTOPHER C. CAVANAGH.	CLARENCE TUCKER.
EUGENE A. CARTER.	GEORGE H. CARLETON.

FIELD DRIVERS.

CHRISTOPHER C. CAVANAGH.	CHARLES S. THRASHER.
GEORGE H. CARLETON.	GEORGE W. BEAN.
JOHN E. FULLER.	CHARLES L. ELLIS.
JACOB W. SKINNER.	JOHN G. KNIGHT.
THEODORE E. HERON.	

FENCE VIEWERS.

LAMBERT M. MAYNARD.	AMMIEL COLMAN.
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POUND KEEPER.(Office vacant.)

SEALER OF WEIGHTS AND MEASURES.AMMIEL COLMAN, 34 Marshall Street.

MEASURER OF WOOD AND BARK.SAMUEL T. LITTLEFIELD.

MEASURER OF GRAIN.JOHN CRAIG.

PUBLIC WEAHER IN CHARGE OF CITY SCALES, UNION SQUARE.FULTON O'BRIEN.

WEIGHERS OF COAL.

JOHN CRAIG.	D. WARNER DANFORTH.
GEORGE K. WALCOTT.	THADDEUS HARRINGTON.
CHARLES H. TUCKER.	C. C. WOOLEY.
G. E. SLACK.	EDWARD L. DUNNING.
GEORGE E. NEWCOMB.	WILLIAM I. NEWCOMB.

WEIGHERS OF BEEF.

D. WARNER DANFORTH.	THADDEUS HARRINGTON.
CHARLES H. TUCKER.	GEORGE K. WALCOTT.
C. C. WOOLEY.	G. E. SLACK.
FREDERICK A. GEILING.	

POLICE DEPARTMENT.

MELVILLE C. PARKHURST, *Chief.*

ROBERT R. PERRY, <i>Captain.</i>	EDWARD MCGARR, <i>Sergeant.</i>
CHRIS. C. CAVANAGH, <i>Sergeant.</i>	DENNIS KELLEY, <i>Sergeant.</i>
EUGENE A. CARTER, <i>Sergeant.</i>	PHINEAS W. SKINNER.
JOHN E. FULLER.	SAMUEL A. BROWN.
ALBION L. STAPLES.	JOHN HAFFORD.
JUDSON W. OLIVER.	GEORGE A. BODGE.
GEORGE W. BEAN.	THEODORE E. HERON.
GEORGE L. SMITH.	GEORGE H. CARLETON.
EDWARD M. CARTER.	HUBERT H. MILLER.
JOHN F. JOHNSON.	FRANCIS A. PERKINS.
EDWARD E. HAMBLIN.	CHARLES S. THRASHER.
CHARLES E. WOODMAN.	WILLIAM H. JOHNSTON.
ARTHUR E. KEATING.	JOHN G. KNIGHT.
STEPHEN S. SMITH.	JACOB W. SKINNER.
EUGENE H. GAMMON.	DAVID A. BOLTON.
IRA S. CARLTON.	JAMES M. HARMON.
CHARLES W. STEVENS.	MICHAEL T. KENNEDY.
JAMES J. POLLARD.	EZRA A. DODGE.
ULYSSES G. SKINNER.	DANIEL G. SIMONS.

MELVILLE C. PARKHURST, *Lock-up Keeper.*

MEETINGS.

BOARD OF ALDERMEN.

Second and fourth Wednesday evenings of each month.

COMMON COUNCIL.

First and third Wednesday evenings of each month.

SCHOOL COMMITTEE.

Last Monday evening of each month.

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